

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

NOVEMBER 1, 1961

Serial Dept.



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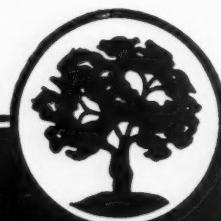
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grown best to sell best

Bob Lindquist of Howard Rose Company takes a close look at the quality of this year's crop. Photo taken September 12, 1961. Yes, we are growing Peace this year as a non-patent . . . 80,000 of them. "Look at the strong canes and healthy foliage."



What a beautiful crop! Here are plants of unsurpassed quality. Plants that are fibrous rooted and well matured. This is the kind of stock that can mean greater profits for you in '62. In the photo above as far as the eye can see, there is quality and *uniformity* . . . which make your job of selling roses easier. If you haven't placed your order for Howards of Hemet roses, do it now. Our 1961-1962 illustrated

Catalog lists the popular patented and non-patented varieties. We solicit all types of Wholesale orders, small or large as long as they are in multiples of 10 for non-patents and in 5 for patents. Trial and fill-in orders are welcomed. All of our customers get the same fine quality and service regardless of the size of order.

"Seasoned Rosebushes" for the wholesale trade exclusively.



AMERICAN NURSERYMAN

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Editorial

BUSINESS RECOVERY

Recovery is more rapid than expected from the business recession that marked the latter part of last year and the opening months of this year, according to reports. The rise is not uniform in all industries and lines of trade, but the advances are such as to remove the problem of unemployment which bothered the administration at Washington at its outset. In spite of strikes, the automobile industry has been posting some high sales records. The steel industry advanced steadily in late summer; building has shown more signs of encouragement and retail sales have responded to the stimulus of autumn sales promotions by department stores, mail-order houses and other merchants.

The heartening predictions made by bank economists and others are favorable for the next three months or half year, in the absence of any international upset. The long-term outlook they also regard as favorable, but some uncertainties that continue in the domestic as well as the international situation deter some from viewing the farther future as rosily as that near at hand.

Such predictions and the reports about current business in many lines give reason for expecting quite good holiday sales, to the encouragement of nurserymen and others operating garden shops through that season. The same encouragement will hold for the mail-order and other nurserymen preparing for spring business. Spending by the consumer public, according to report, was contracted somewhat by the recession last year, but is rapidly regaining its former totals for the country as a whole, which were a record.

With the government at Washington bending all efforts to stimulate the purchasing power of the public and the growth of industry,

coupled with the record peace-time budget presaging government spending in all lines, plenty of money is in circulation, and the beneficiaries seem more and more willing to pass it on to the ultimate benefit of business in most lines.

The climate for business, as they say, is warm and favorable. With the sales uptrend established, the businessman's problem now is to secure adequate profit, which usually depends upon aggressive sales promotion, energetic management and vigilant economy.

BEATING SUPERMARKETS

Until the past decade a large popular-price department store in Chicago sold large quantities of nursery stock in the spring of each year and from its advertising and number of customers was known as probably the largest downtown outlet for trees, shrubs and related items. Then, as the home gardening suburbs became farther out, its sales of plants diminished, and a few years ago the garden department was closed entirely. The explanation was that conditions were not suitable for keeping salable stock long and it was extremely difficult to hire salespeople who could give the advice that customers wanted.

When the store opened branches in outlying shopping centers, the garden department again became a feature of its operations. The new locations were out in the midst of suburban gardeners, parking was abundant and it was expected that salespeople would be engaged of the proper sort. But now this department store has given up its house plant and garden department in its largest outlying branch.

This experience is not unique. Similar ones have occurred among department stores in other cities, and some chain stores and supermarkets have stopped selling plant materials for the same or other reasons. The other reasons are that gardeners today know much more about plants than did their fathers and mothers. They want better stock, up-to-date varieties, stock that they know is not half dead and information that is reliable.

So the reasons given by these enterprises for no longer handling nursery stock concern the very points on which nurserymen and garden centers are superior, offer-

ing fresh stock and better varieties, kept in viable condition. They employ help who can advise and guide the customers who know little, yet answer the questions with knowledge and accuracy put to them by experienced gardeners.

These advantages of the nursery trade were pointed out by a long-experienced, observant and informed member in the October 1 issue. When retail outlets outside the industry recognize these advantages, not only fearing them but also yielding to them, the question seems more emphatic, "Why fear supermarkets?"

As pointed out on this page in the past, competition, within the trade and without, is frequently blamed by the unfortunate when they fall short of success. More often they will find the sources of their troubles close at home—in their sales location, in the character of the surrounding area or in other environmental circumstances, if it is not in their own capacity or abilities.

WOMEN EMPLOYEES

The high cost of living is impelling many housewives with reduced family responsibilities, because the children are away at school or married, to enter or re-enter the business field in one capacity or another. The high figures of current employment include increasing millions of female workers. They have been found capable and even superior for some positions in the garden shop, greenhouse or elsewhere.

Competition for possible employees of this type has led to the holding of forums in various localities, especially where suburban or rural shopping areas are developing, to point out the openings in the labor market, in merchandising, clerical work, real estate, teaching and social work.

Part of the program is individual job counseling, in which employment services and those firms sponsoring the forum make contact with prospective employees. Where a forum of this kind is to be held, there is no reason why a local group of nurserymen or garden shop operators may not participate, so that they may avail themselves of superior talent which otherwise would not learn of the job openings in this industry.

Year's Activities

Reported at California Meeting

By Richard B. Kilner

Over 350 member nurserymen and their wives gathered at the Miramar hotel, Santa Barbara, Calif., for the annual convention of the California Association of Nurserymen September 26 to 28. They paid special tribute to the memory of Bert Kallman, of that city, a pioneer in the nursery industry in California and a past president of the C. A. N., whose death occurred last June.

A high point of the convention was the presentation of \$300 to Mrs. Kallman for the Bert Kallman memorial scholarship fund. The contribution, from the Tri-County chapter, was made by Walter Barrows, Griffin & Morgan, Santa Barbara. Mrs. Kallman also accepted the P. C. N. award to her late husband. Robert Kallman, son of Bert Kallman, was general chairman of the convention.

New Officers

As part of the concluding business of the convention, the following officers were elected: President,

Harold Prickett, Prickett's Nursery, Santa Rosa; vice-president, John A. Armstrong, Jr., Armstrong Nurseries, Inc., Ontario; treasurer, Eugene Armstrong, Capital Nursery Co., Sacramento, and controller, Richard Westcott, Paul J. Howard's California Flowerland, Los Angeles. San Diego was named the convention city for 1963.

With the theme of the meeting "Outlook for the Sixties," there was an air of objectivity and realism as speaker after speaker urged nurserymen to keep a clear sense of perspective in facing rapidly changing conditions. Calls to sell harder, merchandise more or convert to supermarket systems were not offered as panaceas, but each nurseryman was urged to learn where he stood in his own operation. Management was declared the point of weakness throughout the industry. Until the profit situation is clear, no judgment can be formed as to whether increased volume will help or hurt. While the success of the mass mer-

Officers elected at the Santa Barbara convention of the California Association of Nurserymen: Left to right, Eugene Armstrong, treasurer; John A. Armstrong, Jr., vice-president, and Harold Prickett, president.

diser seems to be in ever more volume, to overcome a lower margin, volume for volume's sake is not the answer for the average nurseryman.

Record Committee Activity

Action instead of words was the call of many speakers. C. A. N. president, Robert T. Warner, Manhattan Garden Supply, Manhattan Beach, started off in this vein in his report. It was a year of record activity by the association, including the fruition of some projects begun two years ago. Mr. Warner enumerated some of the past year's "firsts," which were enlarged upon in reports by committee chairmen.

Responsibility for the annual refresher course was given the Peninsula chapter, under Chairman Peter Sugawara, Montebello Nursery, Los Altos. The response was the largest attendance to date. The chapter initiated some firsts of its own, including an educational horticultural book display and class discussions.

The nursery institutes were benefited by the inauguration of a standing committee to provide more continuity from year to year. Furthermore, finances from the state office will now help support the institutes. Chairman for the north is George Haight, Stocking Rose Nursery, San Jose. Harold J. Botts, Botts Nursery, Anaheim, heads the southern group.

Safety Awards

The association held its first safety contest. Committee chairman, Charles Armstrong, Capital Nursery Co., presented a certificate and check for \$50 to the following: Gerletti Nursery, El Cerrito; Yata Nursery, Torrance; Three Star Nursery, Torrance; Sawyer Nurs- [Continued on page 90]



Among the participants in the California convention were (left to right) L. H. McGuire, president of the American Association of Nurserymen; Robert Warner, outgoing president of the California Association of Nurserymen, and F. Raymond Brush, A. A. N. legislative assistant.



Members of the panel who discussed the outlook for the nursery industry at the recent convention of the California Association of Nurserymen: Left to right, J. Awdry Armstrong, Ontario, moderator; Jack McDonnell, Oakland; James Perry, Montebello; Willis Stribling, Merced, and David Stump, Ontario.

California Speakers View Future of the Industry

Panelists and A. A. N. Leaders Stress Management

By Richard B. Kilner

"Outlook for the Sixties" was the theme of the California Association of Nurserymen convention held September 26 to 28 at Santa Barbara. Representatives of three fields discussed what the decade holds in store for the nursery industry, and for the state of California and the changes it finds in retail merchandising. The future of the trade was discussed by a panel of industry members and by officers of the American Association of Nurserymen, while modern retailing trends were outlined by a Sears Roebuck & Co. executive and the economic outlook for California was sketched by an official of the Bank of America. A general report of the convention appears on the preceding page.

Panel on Trade's Future

J. Awdry Armstrong, Armstrong Nurseries, Ontario, moderated and summarized the nurserymen's panel discussion "As We See the Sixties."

Jack McDonnell, McDonnell Nurseries, Oakland and Walnut Creek, opened with the reflection that, of the 30 years he has been in the nursery business, the past five have been the most difficult.

An earlier speaker had commented that seven nurseries in the Walnut Creek-Lafayette area had gone out of business in the past six

months. Mr. McDonnell acknowledged this as fact, but stated that sales at his Walnut Creek branch were up \$30,000 over those of the year before. The industry needs more \$10,000 to \$12,000-a-year salesmen, he asserted, and must raise its standards to attract high-caliber personnel.

Mr. McDonnell is one of the two nurserymen serving with representatives of landscape contractors, landscape architects and professional gardeners regarding landscape problems. From this experience, he concludes that the whole industry is in a squeeze, not just nurserymen, and the whole industry must work to improve the situation.

Wholesalers, he stated, are growing plants which should not be on the market. They should stress new items and drop those which have no real customer demand. Mr. McDonnell concluded that nurserymen have better merchandise and are established; the proper course is to "lick 'em, not join 'em."

Hard Work Required

James Perry, Perry's Plants, Montebello, expects the "Sizzling Sixties" in the coming years. However, it will entail hard work, and nurserymen face a number of problems, not only from new types of outlets,

but in developing their own business.

He urged caution in developing new businesses, because of changing conditions and rising land prices. Retailers must accept smaller margins and increase their volume. Mr. Perry plans to double or triple his firm's output by 1970 with additional land already acquired. This was his answer to a comment that bedding plants were waning in popularity. Mr. Perry urged that each individual watch his costs, especially with more inflation coming.

Willis Stribling, Stribling's Nurseries, Inc., Merced, was optimistic; he urged everyone to be alert. Take advantage of every opportunity, he advised; use the C. A. N. sales aids, and capitalize on fads as other industries have.

Mr. Stribling envisions an increase in mail-order nursery stock as garden centers handle fewer, fast-moving lines. Door-to-door selling should increase. The entrance of chains and discount houses into the field indicates the vast potential for the nursery industry in California. The weakness in the industry, he said, is the failure to meet change and take advantage of new opportunities.

Sees Sales Increase

David Stump, Armstrong Nurseries, Ontario, noted that with population, home building, leisure and the standard of living all on the upswing, nursery sales are certain to increase.

Mr. Stump advocated new products to whet the appetite of amateurs. A product should last as long as necessary to convince the customer that he got his money's worth. It does not have to last 15 years—in fact, he said, a little product obsolescence would be a good thing for the nursery industry.

The big emphasis should be on new methods of presentation through packaging, displays and buildings. As an example, Mr. Stump pointed out that soap is an ordinary item, but it is not all wrapped in brown paper. Why must a plant be presented in a battered, dirty can?

Mr. Stump feels the area of general business management demands the most attention. He stressed that one can get a great deal of help through the C. A. N., but only in proportion to the amount of time and effort he devotes to association activities. Inflation is especially troublesome for the nurseryman, because of the length of time re-

[Continued on page 48]

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Top Attendance, Big Trade Fair Features of Oklahoma Meeting

By Fred H. Kilner

The site of the Oklahoma State Nurserymen's Association convention that proved so popular two years ago was even more so this year, for 250 persons registered for the annual event at the Western Hills Lodge, Wagoner, Okla. Even a heavy rain September 27, the day before the official opening, did not deter a record number of persons from journeying to this resort area located on a peninsula overlooking Lake Fort Gibson in one of Oklahoma's most beautiful state parks.

Encouraging attendance were the large trade fair of 61 exhibits, the special exhibitors' prize of a \$500 bill and various other prizes of different smaller denominations. While the educational aspect of the convention was not heavy, as much time was set aside for visiting exhibits, the panel discussion on the growing and care of container-grown stock and talks on garden center operation, lawn diseases and insects and the care and potting of bare-root roses interested a large proportion of the nurserymen in attendance.

Nurseryman of the Year

Always of much interest to the group is the presentation of the award to the outstanding Oklahoma nurseryman. This year's winner was Ben Davis, Ozark Nurseries, Tahlequah, the presentation being made by J. E. Conard, Conard Nurseries, Stigler, the son of last year's winner, Leo Conard, who died earlier this year.

At the election of officers held the last day of the convention, September 29, the following were chosen: President, Bob Sanseverino, O. K. Gardens & Nursery Co., Tulsa; vice-president, Ted Aynes, Aynes Nursery, Oklahoma City, and secretary-treasurer, Cyrus E.

Adams, Kenyon's Nursery, Oklahoma City.

After a preconvention buffet dinner Wednesday evening, September 27, the convention was called to order the next morning by President Ezra Porter, Porter's Nursery & Flower Shop, Oklahoma City. After the invocation, Harold Nickel, Greenleaf Nursery, Muskogee, Okla., served as moderator of a panel discussion entitled "Growing and Care of Container-grown Stock." The points brought out during this discussion are summarized in a separate article on the following page.

Rounding out the morning program was a report from the A. A. N. Washington office from Robert Lederer, American Association of Nurserymen legislative assistant.

Pointing out some of the services



Recipient of the "Oklahoma Outstanding Nurseryman" award at this year's convention of the state association was Ben Davis, Ozark Nurseries, Tahlequah, at right. Presenting the award was J. E. Conard.



Elected president of the Oklahoma State Nurserymen's Association at its annual convention was Bob Sanseverino, center. Ezra Porter, outgoing president, is shown at left, and Cyrus Adams, re-elected secretary-treasurer, appears at the right.

that the A. A. N. has supplied and from which the whole industry has benefited, Mr. Lederer stated that the transportation committee has made it possible to ship stock in refrigerated railroad cars with only a 20,000-pound minimum instead of a 40,000-pound minimum. The same committee, he added, was successful in having nursery stock covered under the motor freight classifications regardless of the method of packing.

He told of the various benefits obtainable under the A. A. N. group insurance program and urged nurserymen to enter the industrial awards competition. He stated that the urban renewal program encouraged by the A. A. N. offers unlimited possibilities for increased sales of nursery stock. Currently, stated Mr. Lederer, 500 cities are interested in downtown city beautification projects.

One of the busiest legislative sessions of Congress was that of the past year, he pointed out, with more activity affecting agriculture than ever before. Many bills, he stated, were presented which would have seriously hampered nurserymen if the watchdog services of the A. A. N. had not been available.

Mr. Lederer pointed out that the Mexican labor bill, which was recently passed by Congress, went through without the wage-fixing provision which would have upped the wages of those firms using domestic help as well as Mexican labor. Mr. Lederer injected a note of warning that if one is in the mail-order business he should get ready for postage rate increases next year.

Concluding his presentation, Mr. Lederer called attention to the latest A. A. N. News Letter dated Sep-
[Continued on page 98]

Care of Container Stock Discussed in Oklahoma

By Fred H. Kilner

A program feature of special interest at the convention of the Oklahoma State Nurserymen's Association held at Wagoner, Okla., September 28 and 29 and reported elsewhere in this issue was a panel discussion on the subject of "Growing and Care of Container-grown Stock." Moderating the discussion was Harold Nickel, Greenleaf Nursery, Muskogee, Okla., and serving with him were W. D. Kenyon, Kenyon Nursery, Dover, Okla.; Glen Weaver, Greenleaf Nursery, and Steve Verhalen, Verhalen Nursery Co., Scottsville, Tex.

Mr. Nickel stated that with more container stock being grown, additional information is needed on how to care for it. Overwintering the stock was discussed first. It was suggested that snow fencing be leaned over the plants and that sand or sawdust be piled around the sides of the containers. If a plastic sheeting is placed around the plants, it should be taken off when the sun comes out; otherwise the leaves will drop.

Mr. Nickel stated that one cannot deal with all plants in the same manner. At his nursery he protects just the broad-leaved evergreens. He stated that the tops of the plants are seldom hurt if the roots are protected. He advised watering the plants even when the balls of earth are frozen, as the water has some thawing action. He believes that much winter damage results from inadequate moisture.

It was suggested that Karathane

be used at the rate of one pound to 100 gallons of water to eliminate powdery mildew. Manzate will stop rust. Mr. Nickel explained that he sprays every three or four days, as he has an overhead watering system at his nursery.

Feeding Routine Urged

Turning to the subject of feeding container stock in a retail sales yard, Mr. Verhalen stated that the wholesaler should tell the retailer the date on which he last fed the stock purchased, so that the retailer can continue on the same program. He believes that the retailer should set up a regular fertilizing program and suggested fertilizing every three or four weeks. He advised keeping fertilizer off the leaves. Heavy nitrogen feeding is made in the spring, and a dry fertilizer is used. If the plant looks as though it is not getting enough fertilizer, then a supplementary foliage feeding is applied. Not so much nitrogen is given the plants in the summer, and in the fall a heavy phosphate feeding is put on. Mr. Nickel suggested that an organic-type fertilizer, blood meal or some slow nitrogen-releasing fertilizer, be applied in the middle part of November.

A caution given was to sprinkle the plants slightly rather than flooding them each day. Also it was pointed out that feeding a plant after it is dormant will do it no harm. It was agreed that a healthy plant will receive less winter damage.

If container stock becomes frozen, it was suggested to put it in a shady place and let it thaw slowly.

One of the panel members advised against winter mulching of plants with barnyard manure, as weed seeds will grow and the plants will become overheated. Another word of caution was to avoid having sawdust over the top of cans when heeling them in; instead, a can should be plunged to within one to one and one-half inches of the top.

The panel members agreed that it is a good practice to use a mulch on the top of the container during the growing season, but it should be free of weed seeds. Mr. Verhalen stated that he uses Simazine to keep the weeds down in the container stock. He uses a pressure gun to give each plant a little squirt of the chemical as it comes down the assembly line.

Maintenance Pointers

The attention of the panel was turned to the maintenance of plants in a sales yard to keep them in good, salable condition. It was suggested that stakes put in containers should be big enough for the finished plants. There is much neglect of shearing, staking, watering and insect control.

On the subject of spraying container-grown ornamentals, it was suggested that a program be started early in the spring when the weather warms up so that the insects will not get a head start. It was recommended to spray once a week if one has overhead watering, less frequently if one waters directly into the cans. An all-purpose spray should be used, followed by other spray materials when special situations arise. One of the panel members recommended that a sales yard operator should mark up a spraying program on a calendar so he will not forget to spray every two or three weeks.

When nursery stock arrives at a retail sales yard, one should first check to see if the plants were watered before shipping. Next the plants should be freed from ties so that they will return to their normal shape.

CONSTRUCTION of five concrete block greenhouses is being planned by W. J. Billerbeck, owner of Appalachian Nurseries, Waynesboro, Pa.

WORKING a new peat bog in New Brunswick, Canada, is Conrad Fafard, Inc., Springfield, Mass. The bog is the firm's fourth.



Participating in a panel discussion on "Growing and Care of Container-Grown Stock" at the Oklahoma State Nurserymen's Association convention, at Wagoner, were the following, left to right: Steve Verhalen, W. D. Kenyon, Harold Nickel and Glen Weaver.

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Construction of the "Floating" Wall

By John D. Emerson

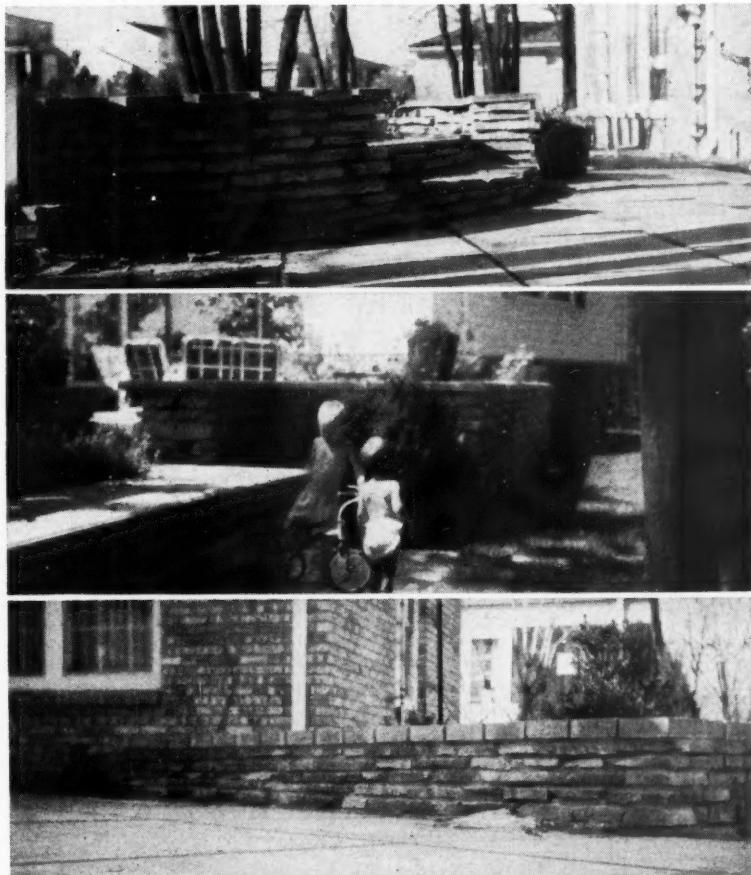
A free-standing wall is often a necessity or, at least, a desirable feature in a landscape development. Too often such a wall is ruled out by the client because of the high cost of the conventional deep-footing wall.

For years the idea of a "floating" free-standing wall had been crystallizing until, one day in 1957, we finally located the necessary "guinea pig" and work started. Since it was a new venture for us, we had no way of measuring labor costs ahead of time, but as the work progressed, we found that we could lay faster than we had anticipated, using the method illustrated in figure 1.

The wall was laid out to exact shape on firm soil at final grade. The soil was excavated about five inches below grade and filled with four inches of bank sand, which was then leveled, sprinkled and packed until it was evenly firm. The first layer of stone (moist, not dry) was selected and laid about one inch below the final grade. Next a layer of standard mix mortar was spread evenly over the stones. At each joint, one or two brick tie strips (corrugated wall ties) were placed in the mortar—this to be continued at each joint throughout the entire wall. The joints were deep-raked for better shadow and then brushed clean. Capstones of the first wall (figure 2) were 2x8x16-inch concrete solids; the wall stone was Onaway limestone.

Winter Tested

The past winter made the fourth for the wall shown in figure 2 with no cracks or breaks, confirming my theory that the entire wall would rise and fall as it froze and thawed. This constant change might indi-



Figures 2, 3 and 4 (Top to Bottom) "Floating" Walls Described in Text

cate, also, that it would be questionable to tie such a wall to other construction.

In 1958 a much heavier wall was constructed in conjunction with a large patio and steps (figure 3). The sand base was six inches deep and 24 inches in width. At patio height

weep holes were included to better drain the area. The cap was formed and poured reinforced concrete. This wall has completed its third winter with no apparent damage.

A third "floating" wall was constructed in 1959 by the man who purchased our business; he had been in charge of the work on the wall shown in figures 2 and 3. A recent inspection shows no winter damage and all parts of the wall are in perfect alignment; 3x8x16-inch concrete solids were used for capstones (figure 4).

Deep Footing Saved

While our observations and experiences are not final as to this method being the best, yet we feel that these walls are at least an indication of the value of successful free-standing construction without deep foundation. It seems advisable to provide fast surface run-off, ac-

[Concluded on page 105]

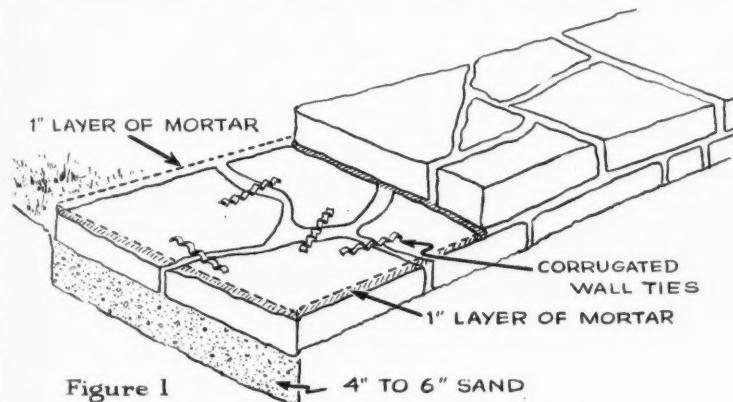


Figure 1

Sorting the Woody Ornamentals

Spruces Popular Despite Limitations

By Donald Wyman

Horticulturist, Arnold Arboretum

The spruces are widely distributed through the northern temperate regions of the world as well as in North America, where seven species are native. Growing in American nurseries are 55 species and varieties and in the Arnold Arboretum 73 species and varieties. Of these only 12 species and their 31 varieties are worth considering as ornamentals, and some of these grow only in small restricted parts of the country.

In general, the spruces are not the best of ornamental trees. As evergreens they have merit, but few of them mature to perfect specimens; most of them either lose their lower branches or become ragged and sparsely branched at the top. With the exception of *Picea pungens*, they are not suited for city planting.

It should be pointed out that half the species recommended here mature at heights of 100 feet or more; hence they certainly are not trees for the small property. This is an important point to keep in mind when selecting trees from the recommended list.

Oftenest Used as Specimens

All spruces, except the dwarf varieties, are rigidly upright, pyramidal, single-trunked trees. Because of this, they are frequently difficult to use in landscape plantings except as prominent specimens. When crowded into mass plantings or when planted in the shade they quickly lose their lower

branches. Most are susceptible to attacks of red spider, and the spruce gall aphid attacks *P. pungens* more readily than the other species.

Picea engelmanni, *glauca*, *pungens* and *rubens* are all hardy in zone 2, which means that they are hardy in the coldest parts of the United States and all but the coldest parts of Canada. Hence, when extreme winter cold is the factor limiting the use of evergreen trees, these spruces might be the first to be considered.

However, in slightly warmer areas, the pines are often used instead, because of their softer foliage texture, and in areas where hemlocks will grow, these should be considered first before either the pines or the spruces. The Colorado blue spruce and its varieties have always been popular and probably always will be, even though they have frequently been misplaced and given too prominent a spot in many gardens.

Norway Spruce Forms Confused

The Norway spruce has been used as an ornamental in Europe for over 300 years, but it does much better there than it does in America. It has the characteristic of producing sports either on branches or as seedlings, and over 100 of these have been named, but the nomenclature and identification of these sports have always been hopelessly confused.

Most are slow-growing dwarfs; many are certainly similar, and

even Murray Hornibrook, who studied them avidly for many years and wrote the best treatise on them ("Dwarf and Slow Growing Conifers," 1939) could do little with many of the varieties except to "report" what others had written concerning them.

Dwarf evergreens are probably becoming more important as ornamentals today than they have ever been before, but even at that, they are so slow-growing that most nurserymen would find that waiting for salable plants is too costly.

With the exception of a few like *P. omorika*, *P. orientalis* and some of the *P. pungens* varieties, the following recommended spruces are not the best of the ornamental trees available for making beautiful gardens. They are sometimes essential because of their evergreen foliage, the quick growth of some, the silvery to bluish foliage color of others or their hardiness. When these conditions can be met by the selection of other trees, the spruces might be overlooked entirely.

Recommended List of *Picea*

Following the name of each recommended species or variety appear its natural height at maturity expressed in feet, its hardiness zone, its place of origin and, in some cases, its common name. The hardiness zones are those given in the author's book, "Trees for American Gardens."

P. abies: 150, Z 2, N. Europe, Norway spruce—Widely planted,



Picea Abies Maxwellii



Picea Abies Clambrasiliana



Picea Omorika



Picea Pungens Bakeri

fast growing when young, this tree does not grow old gracefully. It is often overplanted. Nurserymen should study other species as possibilities for good specimen trees, reserving this species for a cheap quick-growing "filler" tree, which should be removed before it attains mature height. It is noted for its many sports; over 100 have been listed which are almost impossible confused in nurseries. This group cannot be surveyed accurately without making a time-consuming study in this country and abroad. The following varieties are simply the better known forms now being grown in America:

P. a. Clanbrasiliiana—Compact, rounded to flat-topped. A 40-year-old plant in the Arnold Arboretum is six feet tall and 10 feet in diameter.

P. a. Conica—A dense, compact cone of foliage. A 31-year-old tree in the Arnold Arboretum is 25 feet tall and 12 feet in diameter.

P. a. Gregoryana—Very dwarf; seldom over two feet tall; conical to subglobose.

P. a. Highlandia—A more even-



Picea Orientalis

The illustrations accompanying this article were made from photographs supplied by the Arnold Arboretum, Jamaica Plain, Mass.

ly flat-topped and compact tree than the variety *Pumila*. One plant in a park at Rochester, N. Y., a few years ago was 27 inches tall but six feet across.

P. a. Maxwellii—Low, spreading, flat-topped; twice as broad as high. A 31-year-old plant in the Arnold Arboretum is three feet tall and six feet in diameter.

P. a. Microsperma—One of the best pyramidal types, easily propagated by cuttings. A 42-year-old specimen in the Arnold Arboretum is 15 feet tall and 15 feet in diameter.

P. a. Nidiformis—The top is often flat. A 24-year-old specimen in the Arnold Arboretum is three feet tall and 6 feet across.

P. a. Parsonsii—Dwarf, flat-topped, twice as broad as high, often closely resembling *Gregoryana* and *Veitchii*, but with looser foliage. A 77-year-old specimen in the Arnold Arboretum is seven feet tall and 10 feet in diameter.

P. a. Procumbens—Prostrate form with horizontal branches. A 51-year-old specimen in the Arnold Arboretum is only three feet tall, yet 15 feet in diameter.

P. a. Pumila—One of the lowest varieties; dwarf, dense, broad, flat-topped; almost three times as broad

[Continued on page 106]

Oregon Group Completes Beautification Project

By Charles H. Potter

When the Emerald Empire chapter of the Oregon Association of Nurserymen took on the job of planting two block-long pedestrian malls free of charge in downtown Eugene, Ore., the project turned out to be about the most ambitious one that any relatively small group of nurserymen would wish to tackle.

The less than 20 members of the chapter furnished almost all of the plants and labor needed, after previously having sparked the state's second largest city into completing the project, which was about to die for lack of funds and public interest.

Many Groups Co-Operate

Although W. Riley (Tex) Matsler, director of parks and recreation, Eugene, gives full credit to the Eugene chamber of commerce, which first proposed the idea of improving the two ugly alleys; to the members of the Southwest Oregon chapter of the American Institute of Architects who designed the improvements; to the city council, which vacated the property for the new purpose, and to various downtown merchants and individuals who helped in one way or another, he gives the nurserymen most credit for making the whole idea possible.

With a budget of only \$2,400 on hand at the beginning, the city of Eugene soon learned that the cost

of the job was going to run to five figures, even with some volunteer efforts. A large part of the cost would be for nursery stock, landscaping and labor connected with it.

At this point Jack Heflin, chamber of commerce project chairman, turned to the Emerald Empire chapter of the O.A.N. for suggestions. R. G. (Dick) Miller, Edgewood Gardens, president of the chapter, and his fellow members brought back a startling proposal—the chapter agreed to furnish the plants and labor needed to beautify the two malls, provided other citizens and the city would get it ready for planting.

This put the whole project in motion. The Eugene Contractor's Association agreed to do the contracting work for cost or less, an irrigating firm volunteered to install the irrigating system for cost and the Eugene water and electric board agreed to co-operate in the electric work. The park board guaranteed to maintain the plantings. Merchants raised the ante to \$4,000. Landscape architect Hugh Mitchell said he would provide the planting plans.

Problems Delay Planting

The underlying problems proved to be much greater than anticipated. Old buildings alongside the two malls had to be "waterproofed" so that water would not leak into

the basements; unknown pipes and mains popped up before the eyes of excavators beneath the old alley pavings, and Al drainage had to be assured for the well-being of the plants to be placed along the malls. The preparatory job was not finished in time for a spring planting. But on September 25, some 20 nurserymen and their helpers pitched in to do a perfect job of planting the malls.

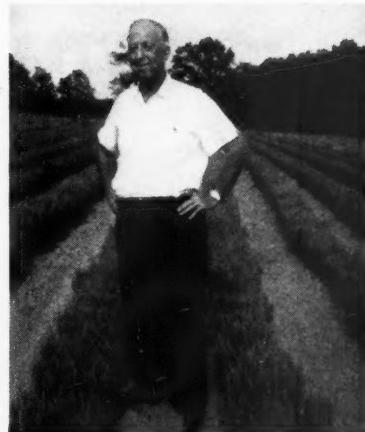
Used in the ample beds which line both malls were large numbers of durable plants, both flowering plants and evergreens. Rhododendrons used were augustini, Bow Bells, Bric-a-brac, Elizabeth, ficto-lacteum, Jackie, Jan Dekens, May Day and Moonstone. The principal ground cover used was Pachysandra terminalis. Also generously used were Fatsia japonica, Mahonia nervosa, Mugho pine and Viburnum davidi.

Trees used for spring flowering were Kwanzan cherry and Thompson magnolia. Through the newspapers and over radio and TV the citizens of Eugene have proclaimed their appreciation to the nurserymen and others for their contribution to civic beauty, appreciation which is seen on the faces of the hundreds who walk through the malls each day.

PRESENTING illustrated talks at evening garden sessions held by the Illinois Garden Guild at Evans-ton, Ill., last month, Carl Klehm, Arlington Heights, discussed evergreens, and Arthur Howard, of F. C. Clavey Ravinia Nurseries, Deerfield, spoke on flowering trees and shrubs, chiefly the crab apples for which the firm is well known. Arthur Howard is the son-in-law of Roy F. Clavey, A. A. N. director.



Shown above are the two pedestrian malls at Eugene, Ore., recently planted by members of the Emerald Empire chapter of the Oregon Association of Nurserymen. Left: Conferring over the plans during the planting of mall No. 1 are (left to right) Ed Cross, Reed & Cross, Eugene; R. G. Miller, president of the Emerald Empire chapter; Reed Vollstedt, Reed & Cross, and W. R. (Tex) Matsler, director of parks and recreation, Eugene. Right: Bob Van Zonneveld, Van Dyke Gardens, Eugene, and an employee working on a section of mall No. 2.



Left: A. D. Cartwright, Sr., and his son, Buddy, check cuttings of Viburnum *juddii* in the Cartwright Nursery's outdoor mist beds. Center: Buddy Cartwright examines a block of Pfitzer junipers. Right: The elder Mr. Cartwright, founder of the nursery firm, surveys a fine stand of 2-year-old, field-rooted liners of *Juniperus excelsa stricta*.

Growing Business in the South

Located just 22 miles from Memphis, Tenn., at Collierville, is perhaps the largest wholesale grower and shipper of balled and burlaped evergreens in the world. Started in 1943 on 132 acres, the Cartwright Nursery Co. now includes 2,800 acres situated on eight separate farms within a 4-mile radius.

At present about 120 varieties of nursery plants are grown, 100 of these being evergreens, with junipers, arborvitae and ilex the main crops; evergreens make up 70 per cent of the plantings. All stock is contour planted.

Propagate Own Stock

The Cartwright Nursery Co. propagates practically all of its stock, having three greenhouses covering 10,500 square feet. A fiber-glass-paneled house also is used for grafting. The propagation beds outdoors cover 8,000 to 10,000 square feet and are equipped for intermittent misting.

A concrete block, styrofoam-lined cold-storage building, 60x60 feet and 14 feet high, contains over 50,000 cubic feet of space. It is used for storing deciduous magnolias and holding lining-out stock for shipments.

Used during the shipping season are 50 acres of heeling-in beds, of which 10 acres are under lath. Last fall and spring 800,000 balled and burlaped evergreens were shipped. During the peak of the shipping season 30 semitrailer vans are loaded and dispatched in a day, each one carrying from 800 to 1,

500 pieces of B&B material. Up to 35,000 plants are shipped in a day, their total weight ranging from 800,000 to 1,000,000 pounds.

All plants are hand dug. The workers who burlap them are paid on an hourly rather than a piece-work basis. It has been found that better-quality work is obtained on the time basis.

Ship Most Stock to North

The main markets to which the stock is shipped are in the midwest and east. Approximately 80 to 85 per cent of the stock is shipped north of the Ohio river. All shipping is done by leased trucks, most of which are refrigerated. In fact, a transportation office is maintained right on the nursery grounds.

Heading the firm is 60-year-old

A. D. Cartwright, Sr., who came from a farming family near Collierville. Graduating from the school of horticulture at the University of Illinois in 1924, he returned to his native state and started a retail nursery and landscape business, which he continued until 1938. For the next five years he entered the landscape contracting business, working on numerous city projects, until he founded the present nursery, specializing in coniferous and broad-leaved evergreens.

Assisting in the business is Mr. Cartwright's son, A. D. Cartwright, Jr., usually called Buddy. Growing up in the business, Buddy graduated from the University of Tennessee in 1950.

Mr. Cartwright credits the finely [Continued on page 38]



Juniper, arborvitae and ilex account for a majority of the 100 evergreen varieties grown at Cartwright Nursery Co., Collierville, Tenn. Shown above are fields of globe (left) and upright Von Ehron junipers.



CHARLIE CHESTNUT



NOW IT CAN BE TOLD

Following are some notes which I made up over twenty years ago, which I never got around to write up because Emil was reluctant to let me do so at the time, as you will see. This story don't have much to do with the nursery business except in a round about way. Some of the older members may be a little surprised, particularly you that were involved in these events, which up to now may have seemed of no special interest.

* * * * *

It was a day in late summer, I remember the day well. As I said, it was many years ago. I got to work one morning and found Emil at his desk in the office.

"What's doing this morning?", I said.

He didn't say anything but kept on with what he was doing. He was patching his old hip boots. He had them standing on his desk and he was patching up the leaks with tire patch. (He has got the same boots today, about 50 per cent patches.)

"Why don't you throw them old boots out or else sell them for old rubber? Where did you get them boots anyway?", I said.

"Got them from the widow of old Helms Heritage," Emil said, "She was cleaning out some stuff one day after Helms died and she gave me these boots. And you know them arrowheads I got in that case hung there on the wall in the front parlor, she give me them too at the same time," Emil continued.

"Didn't you pay her nothing for them arrows?", I said. "How come she just gave them to you?"

"She said she was sick and tired of dusting around them and she never had no use for arrowheads in the first place," Emil said.

Emil rummaged around in the bottom drawer of his desk and come up with two arrowheads and handed them to me. "Helms made one and found the other one on his farm. He used to keep a box full of arrows with numbers stuck on with adhesive tape; part he made himself and part he picked up on his farm. He had a standing offer of \$1.00 if anybody could sort out which was which, but nobody

ever did. There wasn't no difference at all."

"How did he get onto making arrowheads in the first place, I thought that was a lost art," I said.

"That's quite a story," Emil began. "You know Indian Point on the lake up north of Lake Park? Years ago before Helms' time there was an Indian village on that point. They claim there was 800 Indians there at one time. They lived there up to about the year 1800, when they moved west."

"Years later when Helms owned

MONROVIA FIESTA



Marking its 35th anniversary of operation, the Monrovia Nursery Co. featured a fiesta at its establishment at Azusa, Calif., September 19. About 1,300 persons took part in the celebration, which offered many typically Spanish features. The program began at noon with a luncheon and extended through 9 p.m., with a barbecue dinner from 6 p.m. on. Music and entertainment were offered continuously, and games, sports events and cards were available for adults. Highlighting the special program for children was the breaking of several imported pinatas. The heated swimming pool attracted both young and old.

Among the out-of-state visitors were Louis Dank, New York city; Mr. and Mrs. Bolke, Sheboygan, Wis.; Mr. and Mrs. Al Guard, Scottsdale, Ariz., and the William Houltns, Alaska.

Pictured above beside a huge cake, baked for the occasion in the form of a high-crowned sombrero, are Howard Past, president, at the left, and Martin Usrey, general manager, who headed staff members in greeting guests.

that land and ran a farm there he used to turn up thousands of arrows and other Indian tools like axes, bowls, mortars, pipes, tomahawks, sharpened bones, etc. Then he found pieces of flint rock. Gradually he figured out the trick of making arrows and other things just like the Indians made them. In them days collecting Indian relics was quite a pastime, before radio and television and automobiles and all the rest of the things that drive people nutty today. Helms used to do quite a little business with people by mail too."

"How did he make the arrows? The members would like to know about that," I said.

"Well I watched him do it years later. First he found some boulders about a foot across that was hollowed out a little on the top side like somebody had been pounding on them. Then he found some pieces of stone that was shaped like a hammer."

"By holding a piece of flint rock in one hand on this flat stone and hitting it with the hammer, the rock split off in different sizes, you never could tell what size it would be until it split off. Sometimes there was several pieces usually coming to a point on one end."

"For a long time he couldn't figure out the next move, until he experimented with a hard, dried bone like the bone out of a dog's leg. By putting pressure on the bone and giving it a sharp twist, he found he could make arrows. I've seen him make a good arrow in about five minutes."

"What I started out to tell about was when the World's Fair opened up in Chicago, in '92 or '93. Interest in Indian things was at a peak then. Helms was just a young fellow then, but he took a notion to open an exhibit at the fair."

"He gathered a lot of stuff together, including arrows of all sizes, fluted axes, pipes, bowls and a lot of stuff that nobody knew what some of the things was used for."

"By the way, one time he was seining carp there on the lake one [Continued on page 70]

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- FLOWERING TREES
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Azalea Hino-Crimson	3.00	20.00	Juniperus pfitzeriana	22.50
Azalea Palestina	3.00	20.00	compacta	22.50
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Cotoneaster conspicua decidua	3.00	20.00	Rhododendron wilsonii	40.00
Cotoneaster conspicua decora	3.00	20.00	Sarcococca hookeriana humilis	20.00
Cotoneaster horizontalis	3.00	20.00	Taxus Anthony Wayne	
Cotoneaster horizontalis perpusilla	3.00	20.00	(Plant Patent 1617), 2-yr.	50.00
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Ilex crenata Kohl's fastigiata	3.00	20.00	Taxus media brownii	22.50
Ilex crenata microphylla	3.00	20.00	Taxus media cliftonii	22.50
Ilex cornuta rotundifolia	3.00	20.00	Taxus media Halloranii	22.50
Ilex opaca Arden	4.00	30.00	Taxus media hatfieldii	22.50
Ilex opaca Hedge Holly	4.00	30.00	Taxus media henryi	22.50
Ilex opaca Hookstraw, 3-in. pots, 8 to 12 ins.	7.00	60.00	Taxus media hicksii	22.50
Ilex opaca Judge Brown	5.00	40.00	Taxus media	22.50
Ilex opaca Miss Helen, 1-yr. grafts	7.50	65.00	Moon's columnaris	22.50
Ilex opaca mascula, 3-in. pots, 8 to 12 ins.	7.00	60.00	Taxus media Vermeulenii	22.50
Ilex pernyi Brilliant	5.00	40.00		
Juniperus depressa plumosa	3.00	20.00		
Juniperus glauca hetzi	3.00	20.00		
Juniperus horizontalis Bar Harbor	3.00	20.00		

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Hess' Nurseries P. O. Box 128 Wayne, New Jersey

COMING EVENTS

MEETING CALENDAR

November 9 and 10—Holly Society of America, fall meeting, Williamsburg, Va.

November 30 and December 1—Wisconsin Nurserymen's Association, annual winter meeting, Hotel Lorraine, Madison, Wis.

December 4 and 5—Minnesota State Nurserymen's Association, annual convention, Curtis hotel, Minneapolis, Minn.

December 6 to 9—Plant Propagators Society, annual meeting, Manger Annapolis hotel, Washington 5, D. C.

December 11 and 12—Nebraska Association of Nurserymen, annual convention, Cornhusker hotel, Lincoln, Neb.

December 27—Connecticut Nurserymen's Association, annual meeting, Waverly Inn, Cheshire, Conn.

January 7—National Landscape Nurserymen's Association, annual convention, Hotel Continental, Kansas City, Mo.

January 7 to 9—North Carolina Association of Nurserymen, annual short course, College Union, North Carolina State College, Raleigh, N. C.

January 8 and 9—New York State Arborist Association, annual convention, Statler hotel, on Cornell University campus, Ithaca, N. Y.

January 8 to 10—Indiana Association of Nurserymen, winter meeting, Purdue Memorial Center, Purdue University, Lafayette, Ind.

January 8 to 10—Western Association of Nurserymen, annual convention, Hotel Continental, Kansas City, Mo.

January 8 to 11—Eastern Regional Nurserymen's Association and New York State Nurserymen's Association, joint convention and trade exposition, Concord hotel, Kiamesha Lake, N. Y.

January 10 to 12—Indiana Arborists' Association, Purdue Memorial Center, Purdue University, Lafayette, Ind.

January 11 to 13—Iowa Nurserymen's Association, winter meeting, Savery hotel, Des Moines, Ia.

January 15—National Mail Order Nurserymen's Association, winter meeting, Hotel La Salle, Chicago, Ill.

January 15 to 17—Illinois State Nurserymen's Association, annual convention, Hotel La Salle, Chicago, Ill.

January 16 and 17—Maryland Nurserymen's Association, winter meeting, Sheraton Inn, Baltimore, Md.

January 17 and 18—Connecticut nurserymen's short course, college of agriculture, University of Connecticut, Storrs, Conn.

January 18—Kansas Arborists Association, annual meeting, Wareham hotel, Manhattan, Kan.

January 18 and 19—Kansas State Shade Tree Conference, annual meeting, Kansas State University, Manhattan, Kan.

January 21 to 23—Virginia Nurserymen's Association, annual convention, Hotel John Marshall, Richmond, Va.

January 22 to 24—Ontario Nurserymen's Association, annual convention, Sheraton-Connaught hotel, Hamilton, Ont., Canada.

January 22 to 24—Kentucky State [Continued on page 22]

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1 1/4 to 1 1/2-in. cal., 9 to 11 ft.	7.00

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MEMORIAM (PPAF)—Large, perfectly-formed pink hybrid tea of exquisite color and form. Holds Gold Medal from Portland International Rose Test Gardens. Easy-to-grow sturdy plant of medium height begins to bloom in early spring. Recommend Memoriam for large, lovely, exceptionally long-lasting cut flowers, excellent for arrangements and exhibition.

CORONADO (PPAF)—This 1961 introduction is an unusual red and gold bi-color hybrid tea that blooms continuously throughout the summer. Fragrant flowers are huge, often 8 inches to 9 inches across, with long stems on a tall, spectacular plant. An award winner four times over in stiff European trials.

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Magazine covers, color inserts and newspapers throughout the country have carried color and black-and-white pictures of Golden Slippers, Memoriam and Coronado, as well as other P&D introductions. No effort has been spared to build nationwide demand for these unequalled prize-winning roses.

With prize-winners in the lead, we are introducing 16 new roses this year in all desirable colors, white and pastels, including new hybrid teas, grandifloras and floribundas. P&D roses have flexible, fibrous roots and short shanks. They are easy to pot, easy to grow—and you can sell them with confidence. For color reproductions and list of roses hybridized by Peterson & Dering, consult our 1961 Rose Reference Book, or contact us immediately.



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AMERICAN ARBORVITAE VARIETIES

(*Thuja occidentalis*)

	Each	Each	Per 10	Per 100		Each	Each	Per 10	Per 100
Dark Green American Arborvitae					Globe compacta Arborvitae, Parsons				
18 to 24 ins.	\$1.25	\$1.00			12 to 15 ins.	\$1.25	\$1.00		
24 to 30 ins.	1.75	1.50			15 to 18 ins.	1.50	1.25		
30 to 36 ins.	2.25	2.00			18 to 24 ins.	1.75	1.50		
3 to 4 ft.	3.00	2.50			24 to 30 ins.	2.25	2.00		
Compacta erecta Globe Arborvitae					30 to 36 ins.	3.00	2.75		
12 to 15 ins.	1.25	1.00			Pyramidal American Arborvitae				
15 to 18 ins.	1.50	1.25			12 to 15 ins.	1.50	1.25		
18 to 24 ins.	1.75	1.50			24 to 30 ins.	1.75	1.50		
24 to 30 ins.	2.25	2.00			30 to 36 ins.	2.50	2.25		
30 to 36 ins.	3.00	2.75			Fastigiata Juniper				
Globe American Arborvitae					12 to 15 ins.	1.50	1.25		
12 to 15 ins.	1.35	1.10			24 to 30 ins.	1.75	1.50		
15 to 18 ins.	1.70	1.40			30 to 36 ins.	2.00	1.75		
18 to 24 ins.	2.00	1.75			Manhattan Blue Juniper				
24 to 30 ins.	2.75	2.50			2 to 3 ft.	1.25	1.00		
30 to 36 ins.	3.25	3.00			3 to 4 ft.	1.50	1.25		

ORIENTAL ARBORVITAE VARIETIES

(*Thuja orientalis*)

	Each	Each	Per 10	Per 100		Each	Each	Per 10	Per 100
Baker Arborvitae					Excelsa Arborvitae				
24 to 30 ins.	\$1.50	\$1.25			24 to 30 ins.	\$1.50	\$1.25		
30 to 36 ins.	1.75	1.50			30 to 36 ins.	2.00	1.50		
3 to 4 ft.	2.25	2.00			3 to 4 ft.	2.50	2.00		
4 to 5 ft.	3.00	2.75			4 to 5 ft.	3.00	2.75		
Berckmans Golden Arborvitae					Mayhew Arborvitae				
12 to 15 ins.	1.25	1.00			24 to 30 ins.	1.50	1.25		
15 to 18 ins.	1.50	1.25			30 to 36 ins.	1.75	1.50		
18 to 24 ins.	1.75	1.50			3 to 4 ft.	2.25	2.00		
24 to 30 ins.	2.25	2.00			4 to 5 ft.	3.00	2.75		
30 to 36 ins.	2.75	2.50			Manhattan Blue Juniper				
Blue Cone Arborvitae					2 to 3 ft.	1.25	1.00		
18 to 24 ins.	1.35	1.10			3 to 4 ft.	1.50	1.25		
24 to 30 ins.	1.70	1.40			Nova Juniper				
30 to 36 ins.	1.90	1.65			2 to 3 ft.	1.25	1.00		
Bonita Arborvitae					3 to 4 ft.	1.50	1.25		
15 to 18 ins.	1.60	1.35			4 to 5 ft.	2.00	1.75		
18 to 24 ins.	1.85	1.60			Sabina Von Ehren Juniper (Staked)				
24 to 30 ins.	2.25	2.00			2 to 3 ft.	1.25	1.00		
30 to 36 ins.	2.75	2.50			3 to 4 ft.	1.50	1.25		

JUNIPERS — SPREADING VARIETIES

	Each	Each	Per 10	Per 100		Each	Each	Per 10	Per 100
Andorra Juniper					Pfitzer Nano Juniper, Armstrong's				
12 to 15 ins.	\$1.35	\$1.10			12 to 15 ins.	\$1.50	\$1.20		
15 to 18 ins.	1.60	1.35			15 to 18 ins.	1.85	1.60		
18 to 24 ins.	2.00	1.75			18 to 24 ins.	2.50	2.20		
24 to 30 ins.	2.50	2.25			30 to 36 ins.	3.25	3.00		
30 to 36 ins.	3.25	3.00			Monkey Juniper				
Chinensis procumbens Juniper					15 to 18 ins.	2.00	1.75		
12 to 15 ins.	1.50	1.25			18 to 24 ins.	2.50	2.25		
15 to 18 ins.	2.00	1.75			24 to 30 ins.	3.25	3.00		
Hetz glauca Juniper					Repandens Juniper				
12 to 15 ins.	1.35	1.10			15 to 18 ins.	1.35	1.10		
15 to 18 ins.	1.80	1.35			Sabina Juniper				
18 to 24 ins.	2.00	1.75			12 to 15 ins.	1.25	1.00		
24 to 30 ins.	2.50	2.25			15 to 18 ins.	1.50	1.25		
30 to 36 ins.	3.25	3.00			18 to 24 ins.	2.00	1.75		
Hetz glauca Juniper					24 to 30 ins.	2.50	2.25		
(Sheared Globe)					Sabina horizontalis Juniper				
15 to 18 ins.	1.75	1.50			12 to 15 ins.	1.50	1.25		
18 to 24 ins.	2.25	2.00			15 to 18 ins.	2.00	1.75		
24 to 30 ins.	2.75	2.50			18 to 24 ins.	2.50	2.25		
30 to 36 ins.	3.25	3.00			24 to 30 ins.	3.00	2.75		
Pfitzer Juniper					Sabina Von Ehren Juniper				
12 to 15 ins.	1.50	1.20			15 to 18 ins.	1.60	1.35		
15 to 18 ins.	1.75	1.50			18 to 24 ins.	2.00	1.75		
18 to 24 ins.	2.25	2.00			24 to 30 ins.	2.50	2.25		
24 to 30 ins.	2.75	2.50			30 to 36 ins.	3.25	3.00		
30 to 36 ins.	3.50	3.25			Virginiana Canaert Juniper				
Blue Vase Juniper					2 to 3 ft.	1.25	1.00		
15 to 18 ins.	1.85	1.60			3 to 4 ft.	1.50	1.25		
18 to 24 ins.	2.50	2.20			Virginia Dundee Juniper				
Pfitzer compacta Juniper, Kallay					2 to 3 ft.	1.25	1.00		
12 to 15 ins.	1.50	1.20			3 to 4 ft.	1.50	1.25		
15 to 18 ins.	1.75	1.50			Virginia glauca Juniper				
18 to 24 ins.	2.25	2.00			2 to 3 ft.	1.25	1.00		
Pfitzer compacta Juniper, Nick's					3 to 4 ft.	1.50	1.25		
12 to 15 ins.	1.50	1.20			Virginia Keteleer Juniper				
15 to 18 ins.	1.75	1.50			2 to 3 ft.	1.25	1.00		
18 to 24 ins.	2.25	2.00			3 to 4 ft.	1.50	1.25		
24 to 30 ins.	2.75	2.50			5 to 6 ft.	2.00	1.75		
30 to 36 ins.	3.50	3.25			Cupressifolia Juniper				
					2 to 3 ft.	1.25	1.00		
					3 to 4 ft.	1.50	1.25		

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BROAD-LEAVED EVERGREENS

All quotations are for B&B stock.

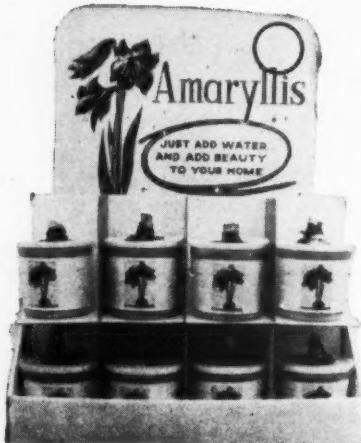
	Each	Each	Each	Each	Each	Each	Each	Each	Each
	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100	
<i>Ilex grandiflora</i>	\$1.50	\$1.25	<i>Ilex crenata repandens</i>	1.25	1.00	<i>Nandina domestica</i>	\$.90	\$0.75	
to 3 ft.	2.00	1.75	12 to 15 ins.	1.50	1.25	15 to 18 ins.	1.20	1.00	
18 to 24 ins.	1.75	1.50	15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.50	1.25	
24 to 30 ins.	2.25	2.00	18 to 24 ins.	2.00	1.75	24 to 30 ins.	1.75	1.50	
30 to 36 ins.	2.75	2.50	24 to 30 ins.	2.25	2.00	30 to 36 ins.	1.75	1.50	
36 to 42 ins.	3.25	3.00	30 to 36 ins.	3.00	2.75	3 to 4 ft.	2.25	2.00	
<i>Ilex hardyi</i>	.70	.60	12 to 15 ins.	1.15	1.00	<i>Osmantus fortunei</i>	18 to 24 ins.	1.75	1.50
to 8 ins.	.85	.75	15 to 18 ins.	1.40	1.25	24 to 30 ins.	2.25	2.00	
10 to 12 ins.	1.15	1.00	18 to 24 ins.	1.65	1.50	30 to 36 ins.	2.75	2.50	
12 to 15 ins.	1.40	1.25	24 to 30 ins.	2.25	2.00	<i>Viburnum burkwoodii</i>	18 to 24 ins.	1.50	1.25
15 to 18 ins.	1.65	1.50	30 to 36 ins.	3.00	2.75	24 to 30 ins.	1.75	1.50	
18 to 24 ins.	2.25	2.00	3 to 4 ft.	4.00	3.50	30 to 36 ins.	2.25	2.00	
<i>Ilex sempervirens</i>	1.20	1.00	18 to 24 ins.	2.00	1.75	<i>Viburnum rhytidophyllum</i>	18 to 24 ins.	1.50	1.25
to 12 ins.	1.40	1.25	24 to 30 ins.	2.50	2.25	24 to 30 ins.	2.00	1.75	
15 to 18 ins.	2.25	2.00	30 to 36 ins.	3.75	3.25	30 to 36 ins.	2.50	2.25	
18 to 24 ins.	3.25	3.00	<i>Ilex opaca</i> seedlings	1.75	1.50	<i>Viburnum chenaultii</i>	18 to 24 ins.	1.50	1.25
24 to 30 ins.	4.50	4.00	2 to 3 ft.	2.75	2.50	24 to 30 ins.	1.75	1.50	
<i>Ilex welleri</i>	1.40	1.25	3 to 4 ft.	3.75	3.50	<i>Viburnum judi</i>	18 to 24 ins.	1.50	1.25
to 15 ins.	2.25	2.00	4 to 5 ft.	5.50	5.00	24 to 30 ins.	2.00	1.75	
15 to 18 ins.	2.25	2.00	6 to 8 ft.	7.00	6.50	30 to 36 ins.	2.50	2.25	
<i>Ilex fruitlandi</i>	1.50	1.25	<i>Ilex opaca</i> Ardens	2.25	2.00	<i>MISCELLANEOUS CONIFERS</i>			
to 3 ft.	1.50	1.25	2 to 3 ft.	3.50	3.00				
4 to 6 ft.	2.25	2.00	3 to 4 ft.	3.50	3.00	<i>Cedrus atlantica</i>	Each	Each	
<i>Ilex simoni</i>	1.50	1.25	4 to 5 ft.	4.25	4.00	Per 10	Per 100		
to 3 ft.	1.50	1.25	5 to 6 ft.	5.25	5.00	3 to 4 ft.	\$3.00	\$2.75	
4 to 6 ft.	2.25	2.00	<i>Ilex opaca</i> East Palatka	1.75	1.50	4 to 5 ft.	4.00	3.75	
<i>Ilex elatius compactus</i>	1.75	1.50	2 to 3 ft.	2.75	2.50	5 to 6 ft.	5.00	4.75	
to 24 ins.	2.25	2.00	3 to 4 ft.	3.25	3.00	<i>Cedrus deodara</i>	2 to 3 ft.	2.00	1.75
30 to 36 ins.	2.75	2.50	4 to 5 ft.	4.25	4.00	3 to 4 ft.	3.00	2.75	
36 to 42 ins.	3.25	3.00	5 to 6 ft.	5.25	5.00	4 to 5 ft.	4.00	3.75	
<i>Ilex fortunei erectus</i>	1.20	1.00	<i>Ilex opaca</i> Fosteri	2.25	2.00	<i>Chamaecyparis plumosa</i> (Green)	2 to 3 ft.	2.00	1.75
1.50	1.25	1.50	2 to 3 ft.	2.25	2.00	3 to 4 ft.	2.50	2.25	
2.00	2.25	2.50	3 to 4 ft.	3.25	3.00	4 to 5 ft.	3.50	3.00	
2.25	2.50	2.50	4 to 5 ft.	4.25	4.00	5 to 6 ft.	4.25	3.75	
3.50	4.00	4.00	5 to 6 ft.	5.50	5.00	<i>Chamaecyparis plumosa</i> aurea	2 to 3 ft.	2.00	1.75
<i>Ilex opaca</i> patens	1.20	1.00	<i>Ilex opaca</i> Howardi	2.25	2.00	3 to 4 ft.	2.50	2.25	
to 3 ft.	1.75	1.50	2 to 3 ft.	2.25	2.00	4 to 5 ft.	3.25	3.00	
4 to 6 ft.	2.25	2.00	3 to 4 ft.	3.25	3.00	5 to 6 ft.	4.25	3.75	
<i>Ilex radicans</i> , assorted types	1.25	1.00	<i>Ilex opaca</i> Hume No. 2	2.25	2.00	<i>Austrian Pine</i>	2 to 3 ft.	2.25	2.00
18 to 24 ins.	1.50	1.25	2 to 3 ft.	2.25	2.00	3 to 4 ft.	3.75	3.25	
24 to 30 ins.	1.75	1.50	3 to 4 ft.	3.25	3.00	<i>White Pine</i>	2 to 3 ft.	2.25	2.00
30 to 36 ins.	2.25	2.00	4 to 5 ft.	4.50	4.00	3 to 4 ft.	3.75	3.25	
36 to 42 ins.	3.50	3.00	<i>Ilex opaca</i> Taber	2.25	2.00	<i>Mugho Pine</i>	12 to 15 ins.	2.25	2.00
42 to 48 ins.	5.50	5.00	4 to 5 ft.	3.50	3.00	15 to 18 ins.	2.75	2.50	
48 to 54 ins.	5.50	5.00	5 to 6 ft.	4.50	4.00	18 to 24 ins.	3.50	3.00	
<i>Ilex cornuta</i> selected types, root-pruned—several of our own selections which we feel are superior.	1.50	1.25	<i>Ilex opaca</i> Tabor	4.25	4.00	<i>FLOWERING TREES, B & B</i>			
18 to 24 ins.	2.00	1.50	4 to 5 ft.	5.25	5.00				
24 to 30 ins.	2.50	2.00	5 to 6 ft.			We have available on our premises cold storage facilities for Magnolias and other items. Inquire about this.			
30 to 36 ins.	3.00	2.75	<i>Ilex vomitoria</i>	1.75	1.50	<i>Magnolia soulangiana</i>	Each	Each	
36 to 42 ins.	3.75	3.50	18 to 24 ins.	1.40	1.25	Per 10	Per 100		
42 to 48 ins.	3.75	3.50	24 to 30 ins.	1.75	1.50	2 to 3 ft.	\$2.25	\$2.00	
48 to 54 ins.	3.75	3.50	30 to 36 ins.	2.25	2.00	3 to 4 ft.	3.00	2.75	
54 to 60 ins.	3.75	3.50	3 to 4 ft.	3.00	2.75	4 to 5 ft.	3.75	3.50	
<i>Ilex cornuta burfordii</i> , root-pruned	1.50	1.25	<i>Ilex vomitoria</i> nana	1.75	1.50	<i>White Dogwood</i>	2 to 3 ft.	1.50	1.25
18 to 24 ins.	1.75	1.50	12 to 15 ins.	1.75	1.50	3 to 4 ft.	2.00	1.75	
24 to 30 ins.	2.25	2.00	15 to 18 ins.	2.25	2.00	4 to 5 ft.	2.50	2.25	
30 to 36 ins.	2.75	2.50	18 to 24 ins.	2.75	2.50	5 to 6 ft.	3.50	3.00	
36 to 42 ins.	3.25	3.00	<i>Ilex vomitoria</i> Pride of Houston	1.40	1.25	6 to 8 ft.	5.00	4.50	
42 to 48 ins.	3.75	3.50	18 to 24 ins.	1.75	1.50	<i>Pink Dogwood</i>	2 to 3 ft.	2.00	1.75
48 to 54 ins.	3.75	3.50	24 to 30 ins.	1.75	1.50	3 to 4 ft.	3.00	2.75	
54 to 60 ins.	3.75	3.50	30 to 36 ins.	2.25	2.00	4 to 5 ft.	4.25	3.75	
<i>Ilex cornuta</i> rotunda	1.25	1.00	3 to 4 ft.	3.00	2.75	<i>Flowering Crab, Katherine</i>	(Light Pink)		
12 to 15 ins.	1.75	1.50	<i>Ilex vomitoria</i> nana	1.20	1.00	(Semi-Dwarf Shrub Form)	4 to 5 ft.	2.25	2.00
15 to 18 ins.	2.25	2.00	15 to 18 ins.	1.50	1.25	5 to 6 ft.	2.75	2.50	
18 to 21 ins.	2.25	2.00	18 to 24 ins.	1.75	1.50	<i>Flowering Crab, Leyi</i> (Red)	1 to 1 1/4 ins.	2.25	2.00
21 to 24 ins.	2.75	2.50	24 to 30 ins.	1.65	1.50	1 1/4 to 1 1/2 ins.	2.75	2.50	
24 to 30 ins.	3.25	3.00	30 to 36 ins.	2.00	1.75	1 1/2 to 2 ins.	3.75	3.25	
30 to 36 ins.	3.75	3.50	3 to 4 ft.	2.50	2.25	<i>Flowering Crab, Hopa</i> (Deep Pink)	1 to 1 1/4 ins.	2.25	2.00
36 to 42 ins.	3.75	3.50	<i>Ilex cornuta</i> convexa	1.25	1.00	1 1/4 to 1 1/2 ins.	2.75	2.50	
42 to 48 ins.	4.00	3.75	18 to 24 ins.	1.40	1.25	1 1/2 to 2 ins.	3.75	3.25	
48 to 54 ins.	4.00	3.75	24 to 30 ins.	1.65	1.50	2 to 3 ft.	2.25	2.00	
54 to 60 ins.	4.00	3.75	30 to 36 ins.	2.00	1.75	3 to 4 ft.	3.00	2.75	
<i>Ilex cornuta</i> convexa compacta	2.00	1.75	3 to 4 ft.	2.50	2.25	4 to 5 ft.	4.25	3.75	
18 to 24 ins.	2.25	2.00	<i>Ilex cornuta</i> convexa	1.75	1.50	<i>Flowering Crab, Magda</i>	1 to 1 1/4 ins.	2.25	2.00
24 to 30 ins.	2.25	2.00	18 to 24 ins.	2.75	2.50	1 1/4 to 1 1/2 ins.	2.75	2.50	
30 to 36 ins.	2.75	2.50	24 to 30 ins.	3.75	3.50	1 1/2 to 2 ins.	3.75	3.25	
36 to 42 ins.	2.75	2.50	30 to 36 ins.	5.50	5.00	2 to 3 ft.	2.25	2.00	
42 to 48 ins.	2.75	2.50	3 to 4 ft.	8.25	7.50	3 to 4 ft.	3.75	3.25	
48 to 54 ins.	2.75	2.50	<i>Magnolia grandiflora</i>	6 to 8 ft.		4 to 5 ft.	3.75	3.25	
54 to 60 ins.	2.75	2.50				5 to 6 ft.	4.25	3.75	
<i>Ilex cornuta</i> helzii	1.20	1.00				6 to 8 ft.	5.00	4.50	
18 to 21 ins.	1.50	1.25							
21 to 24 ins.	1.75	1.50							
24 to 30 ins.	2.25	2.00							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i> Magda	1.50	1.25							
18 to 21 ins.	1.75	1.50							
21 to 24 ins.	2.25	2.00							
24 to 30 ins.	2.50	2.25							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i> grandiflora	1.00	1.00							
18 to 21 ins.	1.25	1.25							
21 to 24 ins.	1.50	1.50							
24 to 30 ins.	2.25	2.25							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i> grandiflora	1.00	1.00							
18 to 21 ins.	1.25	1.25							
21 to 24 ins.	1.50	1.50							
24 to 30 ins.	2.25	2.25							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i> convexa	1.25	1.25							
18 to 21 ins.	1.50	1.50							
21 to 24 ins.	1.75	1.50							
24 to 30 ins.	2.25	2.00							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i> convexa compacta	2.00	1.75							
18 to 21 ins.	2.25	2.00							
21 to 24 ins.	2.25	2.00							
24 to 30 ins.	2.50	2.25							
30 to 36 ins.	2.50	2.25							
36 to 42 ins.	2.50	2.25							
42 to 48 ins.	2.50	2.25							
48 to 54 ins.	2.50	2.25							
54 to 60 ins.	2.50	2.25							
<i>Ilex cornuta</i>									



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Nurserymen's Association, annual convention, Phoenix hotel, Lexington, Ky.

January 22 to 25—Annual Ohio State University short course for arborists; landscape gardeners and garden center operators, and nurserymen and the annual meeting of the Ohio Nurserymen's Association, Neil House, Columbus, O.

January 23 and 24—Pennsylvania Nurserymen's Association, winter meeting, Penn-Sheraton hotel, Pittsburgh, Pa.

January 23 to 25—Michigan Association of Nurserymen, annual convention, Statler-Hilton hotel, Detroit, Mich.

January 24 and 25—Oregon Association of Nurserymen, winter convention, Marian Motor hotel, Salem, Ore.

January 28 and 29—Tennessee Nurserymen's Association, winter meeting, Capitol Park Inn, Nashville, Tenn.

HOLLY SOCIETY PROGRAM

Meeting at Colonial Williamsburg, Va., November 9 and 10, members of the Holly Society of America will participate in a conducted tour as the first program feature after the registration period. The tour, starting from the information center of the Motor House at 1:30 p. m., will include [Concluded on page 26]

Potted Giant Amaryllis

Fully guaranteed to bloom
24 pots per display carton

\$20.40 F. O. B. Windsor, Conn.

Available for Immediate Delivery

Ideal for a Christmas gift.

BURFORD HOLLY

Beautiful sheared specimens to 8 ft.

Available in quantity

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Ilex microphylla

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Willow Oak
Flowering Crab Apples
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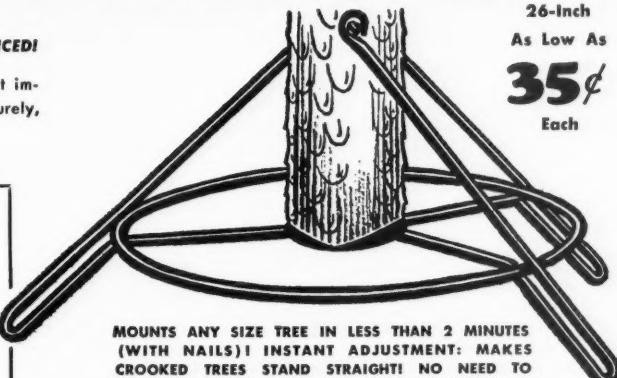
"Wire Wonder" CHRISTMAS TREE STANDS

• A BIG PROFIT-MAKER!

• COMPETITIVELY PRICED!

The "Wire-Wonder" is trade-tested and proved to be the most improved design on the market today! It really holds the tree securely, and straight!

26-Inch
As Low As
35¢
Each



MOUNTS ANY SIZE TREE IN LESS THAN 2 MINUTES
(WITH NAILS)! INSTANT ADJUSTMENT: MAKES
CROOKED TREES STAND STRAIGHT! NO NEED TO
SQUARE-UP BUTTS WITH THE "WIRE-WONDER".

BIG 26-INCH SIZE HOLDS BIG HOME-SIZE TREE

	EACH	DOZ.
1 to 23.....	60c	\$7.20
24 to 240.....	50c	6.00
264 to 600.....	45c	5.40
624 to 1008.....	40c	4.80
1032 to 5016.....	35c	4.20

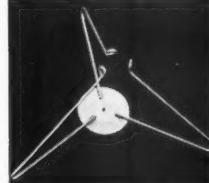
F.O.B. Chicago (nested 24 to a package)

12-INCH "WIRE-WONDER" CHRISTMAS TREE STANDS

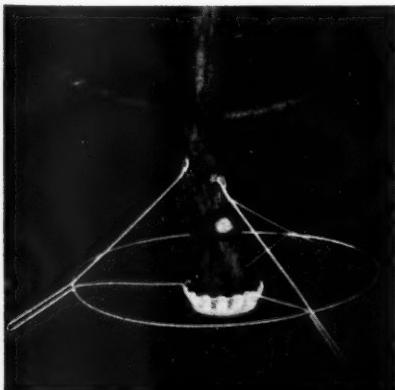
\$3.00 DOZ.

Has most of the features of the larger-size stands.

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"WIRE-WONDER" DE LUXE CUP Christmas Tree Stands

- Large 26-inch size will hold up to an 8-foot tree!

- Ideal for balsam, fir, spruce and all pines!

The CUP will hold ample water to keep tree fresh and strong. Aids in preventing needle shedding and drying out of tree. Has center pin feature in cup to hold tree securely. Mount tree with nails. Makes crooked trees stand straight.

	EACH	DOZ.
1 to 23..	65c	\$7.80
24 to 240.	60c	7.20
264 to 600.	55c	6.60
624 to 1008	50c	6.00
1032 to 5016	45c	5.40

F.O.B. Chicago
(nested 24 to a package)



"MIRACLE SELF-STICK PLUSH RAYON BLEND FLOC" for those who want the best at the lowest prices that QUALITY can be priced! Use plain water only . . . NO ADHESIVES. Write for prices today!

Write for information about our brand new COTTON SELF-STICK FLOC at the lowest prices on the market!

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FINISHED STOCK

These prices are strictly based on wholesale quantities, 25 or more plants of a variety in one grade. If you order only 10 to 24 plants of a variety in one grade, add 10c per plant. If you order less than 10 plants of a variety in one grade, add 25c per plant. We extend to you a cordial invitation to visit our nursery.

Biota aurea nana (Berckmans) Each 25 or more

12 to 15 ins., B&B	\$0.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.00

Biota aurea pyramidalis compacta

24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25
3 to 4 ft., B&B	1.50

Biota bakeri

18 to 24 ins., B&B	.75
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25
3 to 4 ft., B&B	1.50
5 to 6 ft., B&B	2.25

Biota Blue Cone

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Biota Bonita

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50

Biota Bonita, upright

18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.35
3 to 4 ft., B&B	1.60

Biota excelsa

24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Biota excelsa compacta

(Goodwin strain)	
12 to 15 ins., B&B	.75
15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50

Biota fruitiana

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Cedrus deodara

18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.25
4 to 5 ft., B&B	3.25
5 to 6 ft., B&B	4.25

Cypress, Blue Lawson

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	2.00

Juniper, Andorra

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.15

Juniper, Andorra compacta

12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50

Juniper, Blue Vase (Texas Star Juniper)

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

Juniper, chinensis virginalis

15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50

Juniper, conferta (Shore Juniper)

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

Juniper, excelsa stricta

12 to 15 ins., B&B	.85
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Juniper, glauca hetzii

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00

Juniper, hibernica fastigiata

24 to 30 ins., B&B	.85
30 to 36 ins., B&B	1.00
3 to 4 ft., B&B	1.25

Juniper, Pfitzer	Each
12 to 15 ins., B&B	\$1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, Pfitzer Blue	Each
(D. Hill Nursery Co. strain)	
10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
24 to 30 ins., B&B	1.75

Juniper, Pfitzer Blue-Gray	Each
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Juniper, Pfitzer nana	Each
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Juniper, sabina tamariscifolia	Each
12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00

Juniper, virginiana burki compacta	Each
(A counterpart of the well-known J. virginiana burki, except that this one is a beautiful spreading type, maintaining the well-known color of the upright form.)	
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, virginiana burki compacta, staked	Each
(Goodwin strain)	
24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.75

Juniper, virginiana canariensis	Each
24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50
3 to 4 ft., B&B	3.25
4 to 5 ft., B&B	4.00
5 to 6 ft., B&B	4.50

Juniper, virginiana Dundee	Each
3 to 4 ft., B&B	3.50
4 to 5 ft., B&B	4.00
5 to 6 ft., B&B	5.00

Juniper, virginiana keteleeri	Each
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.25
3 to 4 ft., B&B	2.75
4 to 5 ft., B&B	3.25
5 to 6 ft., B&B	3.50

Thuja occidentalis pyramidalis	Each
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.00

Abelia grandiflora	Each
18 to 24 ins., B&B	.75
2 to 3 ft., B&B	1.00
3 to 4 ft., B&B	1.25

Berberis sargentiana	Each
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.25

Buxus sempervirens	Each
6 to 8 ins., B&B	.75
8 to 10 ins., B&B	

	Each			Each
<i>Gennandrus fortunei</i>	25 or more		<i>Acer palmatum atropurpureum,</i>	25 or more
12 to 15 ins., B&B	.85	(Japanese Red-Leaved Maple)	seedlings	25 or more
15 to 18 ins., B&B	1.00	12 to 18 ins., B&B	\$1.00	
18 to 24 ins., B&B	1.25	18 to 24 ins., B&B	1.50	
24 to 30 ins., B&B	1.50			
<i>Phytoloba serrulata</i>		Barberry, Red-Leaved		
18 to 24 ins., B&B	1.00	15 to 18 ins., B&B	1.00	
1 to 3 ft., B&B	1.25	18 to 24 ins., B&B	1.25	
1 to 4 ft., B&B	1.40	24 to 30 ins., B&B	1.50	
4 to 5 ft., B&B	1.60	3 to 4 ft., B&B	1.75	
<i>Pitotporum tobira</i>		<i>Cornus florida</i>		
12 to 15 ins., B&B	1.00	2 to 3 ft., B&B	1.00	
15 to 18 ins., B&B	1.25	3 to 4 ft., B&B	1.40	
<i>Podocarpus sinensis</i>		4 to 5 ft., B&B	2.00	
12 to 15 ins., B&B	1.00	6 to 8 ft., B&B	3.50	
15 to 18 ins., B&B	1.25			
		<i>Cornus florida Cherokee Princess</i>		
		18 to 24 ins., B&B	1.25	
		2 to 3 ft., B&B	1.50	
		<i>Cornus florida rubra</i>		
		18 to 24 ins., B&B	1.25	
		2 to 3 ft., B&B	1.50	
		3 to 4 ft., B&B	2.50	
		Crape Myrtle, Wm. Toovey		
		12 to 18 ins., B&B	.80	
		18 to 24 ins., B&B	.90	
		2 to 3 ft., B&B	1.00	
<i>Viburnum tinus</i>				
1 to 4 ft., B&B	2.50			
4 to 5 ft., B&B	3.00			
		Lonicera Flaming Beauty		Each
		18 to 24 ins., B&B	\$1.00	25 or more
		24 to 30 ins., B&B	1.25	
		Lonicera fragrantissima		
		(Winter Honeysuckle)		
		4 to 5 ft., B&B	1.50	
		Magnolia soulangiana		
		18 to 24 ins., B&B	1.50	
		2 to 3 ft., B&B	1.75	
		3 to 4 ft., B&B	2.25	
		Magnolia soulangeana nigra		
		18 to 24 ins., B&B	1.25	
		2 to 3 ft., B&B	1.50	
		Magnolia stellata		
		18 to 18 ins., B&B	1.20	
		18 to 24 ins., B&B	1.60	
		2 to 3 ft., B&B	2.00	
		Spiraea reevesiana flore-pleno		
		2 to 3 ft., B&B	.90	
		3 to 4 ft., B&B	1.00	
		4 to 5 ft., B&B	1.25	
		Hedera helix (English Ivy)		
		18 to 24 ins., B&B	1.50	

LINING-OUT STOCK

	Each Per 100	Each Per 1000	Each Per 100	Each Per 1000
Buxus Japonica				
2 1/4-in. pots	.09	.11	\$0.11	\$0.10
2 1/2-in. pots	.12	.11		
Buxus sempervirens				
2 1/4-in. pots	.15	.14		
2 1/2-in. pots	.17	.16		
Buxus sempervirens croni				
Rooted cuttings	.10	.08		
2 1/4-in. pots	.11	.10		
2 1/2-in. pots	.13	.12		
Buxus suffruticosa				
2 1/4-in. pots	.16	.14		
3-in. pots	.20	.18		
3 1/2-in. pots	.22	.20		
Cleyera Japonica (Ternstroemia)				
*2 1/4-in. pots	.14	.13		
*2 1/2-in. pots	.16	.15		
Elaeagnus fruticandi				
*2 1/2-in. pots	.15	.14		
Elaeagnus pungens, Dwarf				
2 1/4-in. pots	.19	.18		
2 1/2-in. pots	.21	.20		
Eurya emarginata (Cleyera ochnacea)				
2 1/4-in. pots	.19	.18		
3-in. pots	.21	.20		
Gardenia fortunei				
2 1/4-in. pots	.16	.15		
Ilex cornuta burfordii				
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.17	.16		
Ilex cornuta femina				
2 1/4-in. pots	.17	.16		
Ilex cornuta, Male				
2 1/4-in. pots	.16	.15		
Ilex crenata buxifolia				
2 1/4-in. pots	.13	.12		
2 1/2-in. pots	.15	.14		
Ilex crenata bullata , seedlings				
2 1/4-in. pots	.11	.10		
Ilex crenata convexa bullata				
2 1/4-in. pots	.15	.14		
2 1/2-in. pots	.16	.15		
Ilex crenata fosteri No. 1				
(A new, very low-growing, very compact spreader. Its small serrated leaves are not convex and are more pointed than those of convexa.)				
2 1/4-in. pots	.18	.16		
2 1/2-in. pots	.20	.18		
Ilex crenata hetzii				
4 to 6 ins. bed-grown	.14	.13		
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.17	.16		
Ilex crenata repandens				
2 1/4-in. pots	.15	.14		
2 1/2-in. pots	.17	.16		
Ilex crenata rotundifolia				
6 to 8 ins. T.	.16	.15		
2 1/4-in. pots	.15	.14		
2 1/2-in. pots	.16	.15		
Ilex opaca East Palatka				
2 1/4-in. pots	.13	.12		
2 1/2-in. pots	.14	.13		
Ilex opaca feminina				
2 1/4-in. pots	.17	.16		
2 1/2-in. pots	.18	.17		
Ilex opaca Howard , seedlings				
2 1/4-in. pots	.12	.10		
2 1/2-in. pots	.14	.12		
Ilex opaca Howard				
2 1/4-in. pots	.12	.11		
2 1/2-in. pots	.14	.12		
Jasminum floridum				
*2 1/4-in. pots			\$0.11	\$0.10
Lantana camara (Cherry Laurel)				
6 to 8 ins. bed-grown	.05	.04		
2 1/4-in. pots	.14	.13		
2 1/2-in. pots	.15	.14		
Ligustrum texanum				
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.17	.16		
Magnolia grandiflora				
6 to 8 ins. bed-grown	.07	.06		
8 to 12 ins. bed-grown	.09	.08		
2 1/4-in. pots	.14	.13		
2 1/2-in. pots	.15	.14		
Nandina domestica				
2 1/4-in. pots	.11	.10		
2 1/2-in. pots	.13	.12		
Osmanthus aquifolium				
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.17	.16		
Osmanthus fortunei				
2 1/2-in. pots	.18	.17		
Photinia glabra				
2 1/4-in. pots	.17	.16		
2 1/2-in. pots	.18	.17		
Photinia serrulata				
4 to 6 ins. S.	.04	.03		
6 to 8 ins. S.	.06	.05		
2 1/4-in. pots	.16	.15		
Pittosporum tobira				
2 1/4-in. pots	.11	.10		
2 1/2-in. pots	.13	.12		
Podocarpus sinensis				
2 1/4-in. pots	.17	.16		
Pyracantha bellii				
2 1/4-in. pots	.19	.17		
2 1/2-in. pots	.20	.18		
3-in. pots	.24	.22		
Pyracantha formosana				
2 1/4-in. pots	.16	.15		
Pyracantha Government Red				
2 1/4-in. pots	.18	.16		
Pyracantha graberi				
2 1/4-in. pots	.18	.16		
2 1/2-in. pots	.20	.18		
Pyracantha yunnanensis				
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.19	.17		
3-in. pots	.22	.20		
Viburnum suspensum				
2 1/4-in. pots	.20	.18		
Acer palmatum atropurpureum , seedlings				
(Red-Leaved Maple)				
2 1/4-in. pots	.21	.20		
2 1/2-in. pots	.26	.25		
Barberry, Red-Leaved				
*2 1/4-in. pots				
Cornus florida				
2 1/4-in. pots	.09	.08		
2 1/2-in. pots	.12	.10		
Euonymus alatus compactus				
2 1/4-in. pots	.16	.15		
2 1/2-in. pots	.17	.16		
Lagerstroemia indica				
(Wm. Toovey Crepe Myrtle)				
2 1/4-in. pots	.17	.16		
2 1/2-in. pots	.20	.18		
Magnolia soulangiana lennelii				
Late-flowering pink				
*2 1/4-in. pots				
Magnolia stellata				
2 1/4-in. pots	.27	.25		
Sweet Gum (Liquidambar)				
6 to 8 ins. bed-grown	.06	.05		

SPECIAL NOTICE: Items marked by (*) asterisk will be available for delivery late spring of 1962. All items not so marked are ready for immediate or later shipment to suit customer's requirements.

T. G. OWEN & SON, INC.

Columbus, Miss.



**from
Seed to Seedlings
No Effort is Spared
in producing
MUSSER QUALITY
TREES**



**FASTER GROWTH — QUICKER PROFITS
With Musser Seedlings and Liners**

Musser trees with their strong, extensively branched, compact root system will grow and thrive where inferior stock may fail to survive.

**Careful Selection of Seed with good heredity—Scientific Culture
—New Techniques in fertilization and spraying—Modern Equipment—Experienced Personnel and large volume production enable us to give you highest-quality stock at lowest possible prices.**

A LARGE SELECTION OF SEEDLINGS AND TRANSPLANTS, such as—

	50 at 100 rate	Per 100	Per 1000	50 at 100 rate	Per 100	Per 1000
SPECIAL STRAIN SCOTCH PINE				JAPANESE YEW—Grown from seed		
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.				<i>Taxus cuspidata capitata—upright pyramidal</i>		
2-yr., S., 2 to 4 ins.....	\$ 3.00	\$ 15.00		(2-1), T., 4 to 8 ins....	\$25.00	\$200.00
2-yr., S., 5 to 10 ins.....	6.00	30.00				
3-yr., S., 10 to 18 ins.....	9.00	45.00				
3-yr., T., 6 to 12 ins.....	20.00	100.00				
WHITE PINE				JAPANESE YEW—Transplanted rooted cuttings		
3-yr., S., 5 to 10 ins.....	6.00	30.00		<i>Taxus cuspidata—spreading</i>		
4-yr., T., 8 to 16 ins.....	15.00	75.00		1-yr., T., 5 to 6 ins.....	25.00	175.00
MUGHO PINE—best true dwarf				2-yr., T., 6 to 8 ins.....	35.00	250.00
2-yr., S., 2 to 3 ins.....	5.00	25.00				
4-yr., T., 3 to 5 ins.....	15.00	75.00				
AUSTRIAN PINE				TAXUS HICKSII—upright		
2-yr., S., 3 to 6 ins.....	4.00	20.00		1-yr., T., 5 to 6 ins.....	25.00	175.00
3-yr., S., 6 to 12 ins.....	7.00	35.00		2-yr., T., 6 to 8 ins.....	40.00	300.00
BLACK HILLS SPRUCE				TAXUS BROWNII—upright		
3-yr., S., 4 to 8 ins.....	7.00	35.00		1-yr., T., 4 to 6 ins.....	25.00	175.00
4-yr., S., 8 to 12 ins.....	9.00	45.00		2-yr., T., 6 to 8 ins.....	40.00	300.00
NORWAY SPRUCE—Fast-growing				TAXUS INTERMEDIA—spreading		
2-yr., S., 5 to 10 ins.....	7.00	35.00		1-yr., T., 4 to 6 ins.....	25.00	175.00
3-yr., S., 10 to 18 ins.....	9.00	45.00		2-yr., T., 6 to 8 ins.....	35.00	250.00
3-yr., T., 5 to 10 ins.....	15.00	75.00				
WHITE SPRUCE				JUNIPER—Blue Pfitzer—Chinensis hetzii		
3-yr., S., 8 to 14 ins.....	8.00	40.00		1-yr., T., 5 to 7 ins.....	25.00	200.00
4-yr., T., 6 to 12 ins.....	15.00	75.00				
COLORADO BLUE SPRUCE				GLOBE ARBORVITAE		
3-yr., S., 6 to 12 ins.....	11.00	55.00		<i>Woodwardi—dark green</i>		
4-yr., T., 4 to 8 ins.....	18.00	90.00		1-yr., T., 4 to 6 ins.....	30.00	250.00
DOUGLAS FIR				2-yr., T., 5 to 7 ins.....	40.00	...
2-yr., S., 4 to 8 ins.....	6.00	30.00		<i>Hoveyi—green</i>		
3-yr., S., 8 to 12 ins.....	11.00	55.00		1-yr., T., 4 to 6 ins.....	25.00	200.00
JUNIPERUS VIRGINIANA				2-yr., T., 6 to 8 ins.....	40.00	300.00
2-yr., S., 5 to 10 ins.....	7.00	35.00				
CANADIAN HEMLOCK				PYRAMIDAL ARBORVITAE—Compacta		
2-yr., S., 3 to 6 ins.....	9.00	45.00		1-yr., T., 5 to 7 ins.....	35.00	300.00
3-yr., S., 6 to 10 ins.....	16.00	80.00				
CONCOLOR FIR				JAPANESE HOLLY		
3-yr., S., 6 to 10 ins.....	8.00	40.00		<i>Ilex rotundifolia</i>		
				1-yr., T., 4 to 6 ins.....	20.00	175.00
				<i>Ilex convexa</i>		
				1-yr., T., 4 to 6 ins.....	20.00	175.00
				<i>Ilex crenata hetzii</i>		
				Transplant liners, 6 to 10 ins.....	35.00	300.00
				NORWAY MAPLE		
				Seedlings, 12 to 18 ins....	8.00	40.00
				WHITE-FLOWERING DOGWOOD		
				Seedlings, 6 to 12 ins....	7.00	35.00

All our 3-yr. and 4-yr. seedlings are root pruned before previous growing season to make semitransplants.

Many Other Evergreen Items — Rhododendron and Azaleas.
— All stock carefully graded and packed. —

No charge for packing and boxing.

ORDER NOW! Write or phone HO 5-5686

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WITH WHOLESALE PLANTING LIST, PLANTING GUIDE AND CHRISTMAS TREE GROWERS' GUIDE.

Box 16-K
INDIANA, PENNA.

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**MILLION
TREES
A YEAR!**
NOW OVER 35 MILLION!

MUSSER FORESTS

the garden of the governor's palace, smaller nearby gardens and the holly arboretum. At 7 p. m. a banquet will be held in the Virginia room of the Motor House.

At the morning session November 10, the program will be opened with demonstrations and comment on holly arrangements by Mrs. Claud A. Dance, Shreveport, La. President William A. Snyder, Rutgers, the State University, New Brunswick, N. J., will then preside at a business meeting. Following there will be viewing of color slides of holly.

After a buffet luncheon at the Motor House, the afternoon business session will include a discussion of "Experiences with Holly at Williamsburg and Vicinity," by Alden R. Eaton, director of landscape planting and maintenance at Colonial Williamsburg; "More Light on Winter Damage to Holly," a panel discussion, with Daniel G. Fenton, Millville, N. J., moderator, and Paul Bosley, Mentor, O.; Stewart H. McLean, Baltimore, Md., and Warren Steed, Candor, N. C., panel members, and a holly question box.

N. L. N. A. MEET

January 7 has been set as the date for the annual meeting of the National Landscape Nurserymen's Association, according to Alice F. Smart, executive secretary. The Hotel Continental, Kansas City, Mo., has been chosen convention headquarters.

NORTH CAROLINA COURSE

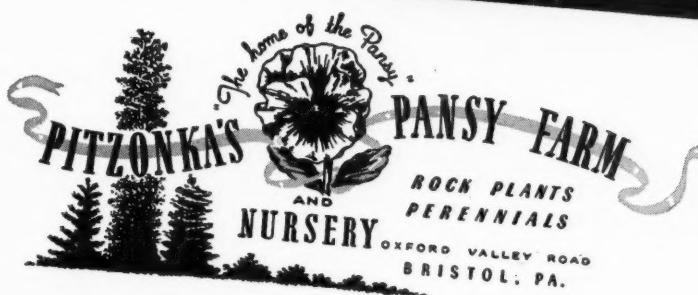
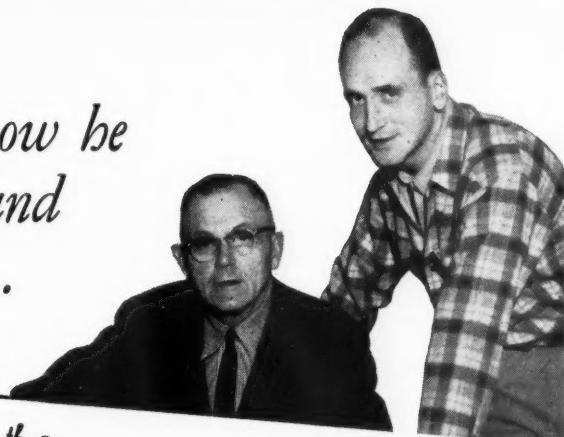
The 25th annual short course, co-sponsored by the North Carolina Association of Nurserymen and North Carolina State College, is scheduled to be held January 7 to 9 at the College Union located on the Raleigh campus. Added features of this year's meeting and trade fair will be a past presidents' banquet and a special program for the ladies, according to Thomas F. Cannon, of the university staff.

SALE of 19 of its 40 acres planted to nursery stock at Glenview, Ill., has been announced by Ralph Synnestvedt & Associates, Inc., Glenview. Special prices are being advertised in order to have the land, which was purchased by the Glenview park district, cleared by next spring.

STARTING the Halco Landscaping Co., 75 Northeast Going street, Portland, Ore., is Lena N. Matheny.

Cle
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*Mr. Pitzonka tells how he
lowers production costs and
gets better plants . . .*



November 29, 1960

Stauffer Chemical Company
Eastern Agricultural Chemicals Div.
1 East 47th Street
New York 17, New York

Gentlemen:

The perennial plant business is an important segment of our activities. Producing quality plants, at the lowest possible production cost, is a main factor with us.

Weeding was one of our higher operating expenses until we began treating our beds with Stauffer's Vapam. A field of perennials required many hours of labor which naturally added up to many dollars by the end of the growing season. Stauffer's Vapam has now controlled our weed problem so very well that a three man crew can now walk through and remove the weeds by hand in a small fraction of the time formerly spent.

Along with the money savings with labor, we feel that with this reduction in weed competition, plant growth has been increased. This is reflected in the higher sales we are getting from the Garden Centers and Nurserymen we supply.

Sincerely,

Pitzonka's Pansy Farm & Nursery

W.W. Pitzonka



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Cleaning your soil with VAPAM® soil fumigant to get rid of weeds, weed seed and other soil pests is another way your PROFITS GROW WITH STAUFFER CHEMICALS.

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Growth has been excellent. Our B&B material never looked better. We still have a good selection of varieties and sizes.

Also a good supply of heavy liners.

Visit us at any time and look us over.

Write for list.

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SALE WE MUST CLEAR THE LAND

Six acres of our Huntington Nursery land has been sold for building purposes. Excellent young nursery stock for sale at big reduction.

Ilex crenata to 4 ft.
Ilex crenata microphylla to 4 ft.
Ilex bullata to 30 ins.
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Spreading and upright Yews to 4 ft.
American Hollies to 6 ft.
Arborvitae varieties to 6 ft.

We can dig; or big reduction if you dig yourself. Time limited.

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BLACK PINE

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Set Hearing Dates For Extension of Beetle Quarantines

The United States Department of Agriculture on October 16 announced public hearings on proposals to quarantine 10 additional states against the Japanese beetle and to add three states to the white-fringed beetle quarantine.

A hearing on the proposal to extend the Japanese beetle quarantine to include the states of California, Georgia, Illinois, Indiana, Iowa, Kentucky, Michigan, Missouri, South Carolina and Tennessee will be held at 10 a.m., central standard time, December 5 in the Peabody hotel, Memphis, Tenn.

The following day, December 6, also in the Peabody hotel, Memphis, a hearing will be held to consider the advisability of quarantining the states of Arkansas, Kentucky and Virginia, because of discovery in those states of infestations of white-fringed beetles.

It is also proposed to regulate the interstate movement, from areas in those states where the beetle has been discovered or other basis for regulation exists, of products and articles likely to spread the pest.

States Previously Quarantined

States now quarantined against the Japanese beetle are Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia and West Virginia and the District of Columbia.

Plans for the white-fringed beetle hearing and proposals for quarantining the three states and for regulating host materials from localized infested areas, largely parallel similar procedures for considering the Japanese beetle situation.

States now having white-fringed beetle regulated areas within their boundaries are Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee.

Interested persons may testify at either of these hearings or may submit statements to the director of the plant pest control division, agricultural research service, United States Department of Agriculture, Washington 25, D.C., on or before the date of the respective hearings.

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JAPANESE BLACK PINE

(*PINUS THUNBERGI*)

We get our seed direct from northern Japan, where centuries of growing on wind-swept shores have given these trees their tendency to be short, full, compact and a beautiful dark green.

	Per 1000
1-yr., S., 3 to 5 ins.	\$ 30.00
2-yr., S., 5 to 6 ins.	50.00
2-yr., S., 6 to 10 ins.	75.00
3-yr., S., 10 to 15 ins.	100.00
3-yr., S., 15 to 24 ins.	150.00
3-yr., T., 12 to 18 ins.	250.00
4-yr., T., 18 to 24 ins., full	500.00
5-yr., T., 24 to 30 ins., full	1000.00

	Each
2 to 3 ft., B&B	\$ 4.00
3 to 4 ft., B&B, wide	7.50
4 to 5 ft., B&B, wide	10.00
5 to 6 ft., B&B, wide	12.50
6 to 8 ft., heavy	20.00

***Pinus mughus*, limited supply**

18 to 24 ins.	3.00
---------------	------

***Pinus strobus*, nursery-grown**

3 to 4 ft., B&B, sheared	4.00
4 to 5 ft., B&B, sheared	5.00
5 to 6 ft., B&B, sheared	7.50
6 to 7 ft., B&B, sheared	10.00
7 to 8 ft., full, B&B, sheared	15.00
8 to 10 ft., full, B&B, sheared	20.00
10 to 12 ft., full, B&B, sheared	30.00

Pinus sylvestris

3 to 4 ft., full, B&B, sheared	6.50
4 to 5 ft., full, B&B, sheared	10.00
5 to 6 ft., full, B&B, sheared	12.50
6 to 8 ft., full, B&B, sheared	20.00
8 to 10 ft., full, B&B, sheared	35.00

Pinus nigra

2 to 3 ft., sheared	4.00
3 to 4 ft., sheared	6.50
4 to 5 ft., sheared	10.00
5 to 6 ft., sheared	12.50
6 to 8 ft., sheared	20.00
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Newport, R. I.

Fall, 1961

Spring, 1962

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1-yr., S.
2-yr., T.
3-yr., TT.

Larix leptolepis

3-yr., T.
4-yr., TT.

Pinus nigra

3-yr., T.
4-yr., TT.

Pinus thunbergii

3-yr., T.
4-yr., TT.

Pinus sylvestris

3-yr., T.
4-yr., TT

Pseudotsuga douglasii

2-yr., T.

Taxus brownii

2-yr., T.

Taxus capitata

3-yr., T.

Taxus cuspidata

2-yr., T.
4-yr., TT.

Taxus densiformis

2-yr., T.
4-yr., TT.

Taxus nigra

2-yr., T.
4-yr., TT.

Viburnum dentatum

(understock grade)
1-yr., S.
2-yr., T.

Prices furnished upon request.

COVER ILLUSTRATION

Picea Glauca Conica

It is of interest to know how some plants eventually reach gardens for ornamental planting, and *Picea glauca conica* deserves a story. In 1904, when Prof. J. G. Jack and Alfred Rehder, of the Arnold Arboretum, were doing a little botanizing work together in southwest Canada, they found themselves at Lake Laggan, Alberta, in the Canadian Rockies, waiting for a train. When they found the train was several hours late, they wandered off into the woods nearby and found four dwarf evergreen seedlings, all of uniform size, which were different from anything they had seen before. These they dug and shipped back to the Arnold Arboretum at once. They later turned out to be dwarf varieties of the white spruce, *Picea glauca*, and were named by Rehder *P. glauca conica*. It was found that these trees could be propagated by cuttings and, of course, then they were distributed throughout the botanic gardens and nurseries of the northern temperate regions of the world.

A common nursery plant now, it is readily available from most nurseries. Extremely dense and compact in growth, it makes a pyramid of light green foliage. Trees sometimes winter burn if exposed to winds that are too high in winter; hence these plants should be used in protected places, away from vigorous winter winds.

Over 15 years ago I went to the estate of Prof. Oakes Ames, at North Easton, Mass., where several old specimens of the plants were growing. They must have been all of 10 feet tall, and out of one of them, at the top, was growing a vigorous upright branch which had reverted, having all the characteristics of the species and not the close compact growth of the variety. This particular tree bore fruits, which we collected. The seeds were carefully sown, and nearly 100 seedlings were grown for several years, but all had the characteristics of the species. None had the close, compact, pyramidal growth of the variety.

The dwarf white spruce, or dwarf Alberta spruce as it is sometimes called, is an excellent formal plant for the rockery or for specimen planting. There are no other



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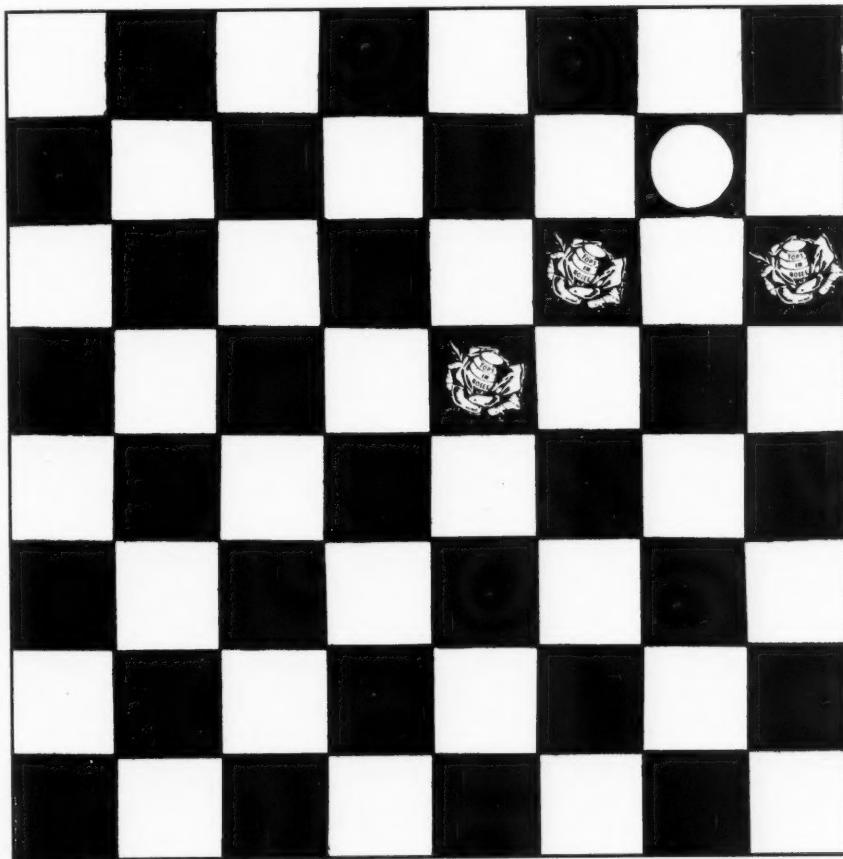
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spruces with its dense and slow pyramidal growth, and it must be remembered that it should be hardy in protected places in some of the coldest parts of the United States and southern Canada.

Donald Wyman

LANDSCAPE GROUP FORMED

A national group of landscape contractors and nurseries that perform landscape contractual services, to be known as the Associated Landscape Contractors of America, was recently formed. The association will be established on a federated basis and will be composed of 10 regions in the United States. Canadian members also will be welcomed.

At present two advisory groups have been established, one composed of landscape contractors and the other of manufacturers to function as an advisory council to the association. Landscape contractors who have accepted a seat on the council are William Mihelich, William Mihelich & Son, Warren, Mich., president of the Detroit Metropolitan Landscape Association; Robert V. Huffman, R. V. Huffman Co., South Holland, Ill., who will represent the Chicago Metropolitan Landscaper's Association; Kenneth Schmidt, Gravelle & McConnell, Inc., Palo Alto, Calif.; Keith E. Card, K. E. C. Co., Artesia, Calif.; Edward E. Stafford, Valley Landscape Co., Baltimore, Md.; Robert Vandehey, R. A. Vandehey Co., Portland, Ore., and Richard J. Elliott, Terra Craft Co., Topeka, Kan.

The advisory council first will obtain representation from every regional or local group; later, a director will be elected from each region. Local groups desiring representation are urged to correspond with Kenneth W. Jenner, executive secretary, whose headquarters are located at 2650 Russell street, Berkeley 5, Calif.

The principal aim of the A. L. C. A. will be to obtain and to pass on information from the various local groups across the nation.

Tentative plans have been made for a meeting of the advisory council at Chicago in the near future to work out details concerning the new association.

OPENED recently was the Baker Landscape Nursery, at Ponca City, Okla., by Paul V. Baker, a former landscape designer for the Hutchinson Nursery Co., El Reno, Okla.

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5 to 6 ft.	1.35	1.20
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6 to 7 ft.	1.90	1.75
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5 to 6 ft.	1.75	1.60
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	Per	Per
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3-yr., T., 6 to 10 ins. . .	\$30.00	\$250.00
3-yr., T., 10 to 15 ins. . .	40.00	350.00
4-yr., TT., 10 to 15 ins. . .	50.00	450.00
6-yr., TTT., 10 to 15 ins. . .	100.00	850.00
Capitata, seedling-grown		
5-yr., T., 8 to 12 ins. . .	50.00	400.00
5-yr., T., 12 to 15 ins. . .	65.00	550.00
6-yr., TT., 8 to 12 ins. . .	65.00	550.00
6-yr., TT., 12 to 15 ins. . .	85.00	750.00
Media, andersonii		
3-yr., T., 10 to 15 ins. . .	40.00	350.00
6-yr., TTT., 10 to 15 ins. . .	100.00	850.00
Media brownii		
3-yr., T., 9 to 12 ins. . .	55.00	450.00
Media densiformis		
3-yr., T., 6 to 9 ins. . .	40.00	300.00
3-yr., T., 9 to 12 ins. . .	55.00	450.00

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The Landscape Market Challenges Nurserymen

Reported by Kenneth Bradley

Responsibility for the design of home grounds has become the problem of the landscape nurseryman, the group attending the ninth annual Connecticut nurserymen's short course at the University of Connecticut, Storrs, was told early this year. Many landscape architects have turned to the larger areas of institutional planting, city and town planning and related fields, declared the speaker, W. James Everett, president, Glen Terrace Nursery, Inc., Hampton, Conn.

Mr. Everett considers planting the most profitable phase of the industry for the landscape nurseryman and the field in which competition is at a minimum. Competition from other sales outlets is unimportant because they cannot offer so skilled a designing and planting service, including a guarantee and follow-up, or, in some cases, so complete a variety of suitable materials.

While citing the dearth of well-landscaped homes, Mr. Everett pointed out the opportunities to do more landscape planting offered by the tremendous increase in new home building, many new institutional types of buildings which need good landscaping and many older homes which have plantings that look worn out. He feels that some of the work currently being done has slipped in quality of design, possibly because in the rush of work that has come to the landscape nurseryman he has not had the time to plan jobs thoughtfully.

Educational Field

Mr. Everett also discussed the need for making the public more aware of appropriate design and the need of utilizing suitable plants. Potential customers should be made aware that the local nurseryman can solve their landscaping problems by helping to plan a landscape planting and by supplying materials for it. The speaker believed that these things must be accomplished at the local level and that the gardening public is eager to learn.

Accomplishment of this education would result in the elevation of the profession and perhaps bet-

ter financial compensation. This might include helping the home builder to budget funds, so that more dollars might be available for landscaping after a new home is built. He cited as examples of this type of educational program the monthly meetings which have been sponsored by some landscape firms and lectures on planting and design sponsored by other organizations, these being always well attended.

Promotion of off-season selling during summer and winter was suggested. During these periods nurserymen can perhaps devote more time to planning. The results should produce better designed home grounds and thus better satisfied customers and repeated business, perhaps even for two generations. The speaker mentioned drawing plans; working out planting design sketches adaptable

to standard-type houses, and promoting additional services, such as pruning, fertilizing and mulching, to spread out the heavy spring and fall work loads. This pre-planning, pre-designing and pre-selling may be done in sufficient detail to anticipate materials that will be needed. Such materials, especially plants that must be obtained elsewhere, may be sought out in advance. The labor and incidental materials required can also be planned for in advance of the spring rush. This will not only make plantings better, but will result in over-all greater efficiency, because spring planting time will then not be reduced by planning needs.

Social Background Needed

Other ideas recommended to the nurserymen were that they must enjoy becoming involved with people, if their planting and designing are to be successful; they cannot just grow and sell plants. The nurseryman must renew his interests through individual reading and by attending meetings where new information is available. He must also be alert to learn from his own experiences and be able to profit from them.

Mr. Everett also mentioned the

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4 to 4½ ft.	8.00
4½ to 5 ft.	9.00

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Heavy 2-yr. plants	7.50	7.00	65.00

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community and civic obligation of the landscape nurserymen, because they are the ones who do the plantings for homes, streets and such community buildings as schools and churches. He noted that for the past few years the tendency has been to take only the jobs which were desired and which came without effort. He believes that one should make a more concerted effort to provide thoughtful leadership in devising planting designs within towns and cities among the general gardening public.

Another topic mentioned by Mr. Everett was that most of the emphasis in the nursery business has been on price competition, rather than on the competitive idea in design, where it ideally should be. No one seems to be approaching the landscaping public on the latter basis, which is a wide-open field of appeal and highly important for further study.

Customer Contacts

In discussing some practices followed in operating the landscaping department at Glen Terrace, Mr. Everett mentioned the importance of considering customer's wishes regarding the kind of planting, design and maintenance. Customers should also be given help in selecting suitable plants, if they are unacquainted with them. Another practice is to have one landscape designer check another's work and discuss it.

Customers are encouraged to select and tag their plants in the nursery. This plan helps to develop customer interest in maintaining plants properly in the future. When a planting is finished, the salesman immediately calls the customer and discusses the completed job, and to insure complete customer satisfaction, later follow-up visits are made, to check on the plantings and, if necessary, to instruct the customer in their care. These follow-up visits leave satisfied customers who will return for their future needs.

Mr. Everett stated that a charge is made for planting plans, and guarantees are given on work. Such practices educate the gardening public to the idea that the legitimate landscape nurseryman is a semiprofessional person.

In conclusion, Mr. Everett suggested that when the nurserymen return to their home towns they ride through them and look at the landscape plantings. He believes that in every town there exists a wide-open market for the land-

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scape nurseryman who is willing to inform the public of the type of service he can offer. Supplying this market is a tremendous challenge and places the nurseryman in a position of real responsibility to the community. In facing it, he can earn himself both a good profit and better business.

CARTWRIGHT NURSERY

[Continued from page 15]

granulated silt loam soil in the Collierville area as being the most important factor in obtaining excellent growth on the firm's evergreens. The soil can be dug and balled any time of the year. Each year from 3,500,000 to 4,000,000 cuttings are stuck. One of the Cartwright Nursery's specialties is sticking hardwood cuttings directly into the field—with a 90 per cent take. It is only within the past two years that the Cartwrights have been offering liners to the trade. A recent addition has been the growing of shade and flowering trees.

Mr. Cartwright believes about 70 per cent of the business is done in spring, but fall business is increasing. Practically all selling is done by telephone, and the only advertising is that carried in the American Nurseryman. No salesmen have ever been employed by the nursery. At present only a multigraphed price list is printed.

Labor is obtained almost entirely from the area around Collierville. The permanent labor force runs about 200, while seasonal labor boosts the payroll to 600. Four general foremen are employed supervising the following: Tractor operations, shearing and weeding, insect control and mechanical maintenance of equipment.

At present 35 tractors and 30 trucks are utilized. Six buses transport workers to and from the fields. Two road maintenance machines are owned, as the various farms include 50 miles of roads. A front-end loader is used for loading potting soil and sawdust, which is transported to theheeling-in area.

Other equipment includes a winch-equipped pickup truck, a 1½-ton truck, two field cars and two high-clearance tractors that were built to the nursery's specifications. Only two mules are used, for special cultivation.

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White Spruce, 18 to 36 ins.
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Your best source for hardy, northern-grown evergreen transplants and seedlings. Write for wholesale price list.

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Quality finished stock, 24 to 48 ins. Come and inspect our quality stock.

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Nurserymen Report:

"The DAVIS T-66 saves better than 50% digging time in balling trees!"



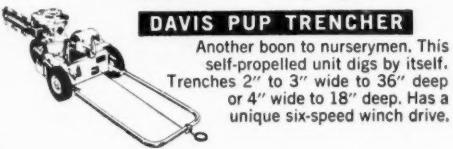
Backfills to pave the way for "walking" balled trees out of the hole.



Tree balled — ready to go

Land leveled — ready to grow

DAVIS PUP TRENCHER



Another boon to nurserymen. This self-propelled unit digs by itself. Trenches 2" to 3" wide to 36" deep or 4" wide to 18" deep. Has a unique six-speed winch drive.

Nurserymen all over the country express enthusiasm with the manhour savings they get from the Davis T-66 Trencher-Backfiller. Comments such as these are common:

"It is highly maneuverable, and is saving better than 50% digging time on balls from 4 to 7 feet in diameter." . . . "We dug a 5" pin oak, had it baled and out of the hole in 30 minutes — with the land leveled." . . . "We have had excellent results from the Davis Trencher, and would be glad to recommend it to other nurserymen."

This self-propelled, track-type trencher has positive traction with maximum flotation. It works in soft ground and crosses cuts or depressions without bogging down. With only 3.6 lb. pressure per square inch, it doesn't ruin new growths either. Quick-attaching backfill blade handles refilling job in record time. Hydraulic boom can be used to lift small shrubs out of the hole. Only 37" wide, the Davis T-66 lets you get in close, go through standard yard gates. It is also a real profit-producer for installing sprinkler systems.

Because the Davis T-66 has proved itself by thousands of hours in tough digging, we welcome competitive demonstrations. Ask your Davis dealer for a test run, and about its 90-day unconditional guarantee.



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Please send me descriptive literature on the Davis T-66 Trencher . . . and also on the Davis Pup . . . I am also interested in the Davis Hustler Utility Trailer to haul the T-66 and other items . . .

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ADDRESS _____

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Streets—Parks—Forests**Long Life—Strength—Coloring**

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Ash, Birch, Serviceberry or
Juneberry, Hemlock, Fir,
Spruce and Pine
also available

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OBITUARY

Maj. John Connell

Maj. John Connell, 89, John Connell Nurseries, Waterdown, Ont., Canada, who was instrumental in the founding of the Canadian Association of Nurserymen, died August 29. Born in Scotland, Major Connell left that country at the age of 21 and settled at Hamilton, Ont., Canada, where he operated a flower shop and greenhouse. After returning from service in World War I, he started a nursery at Stoney Creek and in 1922 opened the nursery at Waterdown.

In August of that year, Major Connell called together the meeting that led to the founding of the Canadian Association of Nurserymen. He was vitally concerned in the C. A. N. and later in the Ontario Nurserymen's Association, of which he was also a member. Though he retired in 1960, he continued to take an active interest in operations of the John Connell Nurseries until his death. The firm will be continued under the same name by C. Vander Kruk and his sons.

John J. Mongillo

John Joseph Mongillo, 61, operator of the Mongillo Nursery, Hamden, Conn., for the past 25 years, died suddenly October 5 after a heart attack. He had been a member of the Connecticut Nurserymen's Association. A native of Amaroza, Italy, he came to the United States 54 years ago. Surviving are his widow, Theresa Perrone; one daughter; one sister, and two brothers.

G. Hale Harrison

G. Hale Harrison, Berlin, Md., died Monday, October 9. He had conducted Harrison's Nurseries and was a member of the Maryland Nurserymen's Association.

Raymond H. Sawyer

Raymond H. Sawyer, executive vice-president of the Earl E. May Seed & Nursery Co., Shenandoah, Ia., died October 7 at the age of 66, succumbing to cancer.

Mr. Sawyer was born in Illinois, but moved with his parents to Shenandoah in early youth. He was a graduate of Northwestern University, Evanston, Ill., and followed a banking career until he accepted the position of assistant to the president of the Earl E. May Seed & Nursery Co. and secretary-treas-

ATTENTION

100,000, more or less, Taxus in varieties — 6 to 7 yrs., 3 times transplanted, well trimmed, A-1 quality stock. Plus 10,000 Juniperus pfitzeriana — 12 to 18 ins. and larger, well sheared, several times transplanted. Also, about 200,000 Cornus florida—strong 2-yr. seedlings. Must be moved by May 1, 1962, since land is to be vacated for development.

List on request. Come and see us.

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Wayne, N. J.

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Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material
Twice transplanted, regularly sheared.
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

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22, turn north at Inn 22; nursery 1 mile
north of U. S. Rt. 22.

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Acer atropurpureum Bloodgood,
Azaleas, Berberis, Cornus florida
rubra, Evergreens, Ilex, Magnolias,
Hybrid Rhododendrons, Taxus,
in variety, etc., in 1, 2 and 3-yr. transplants
at competitive prices. Write
for list on business stationery.

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For Quality Stock
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Successor to Moon's
Established 1767
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American - English - Oriental
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2. ARE YOU KEEPING THOSE BLOCKS FULL?
3. WILL YOUR SUPPLY BE ADEQUATE?

EVERGREENS FOR RUGGEDNESS — UTILITY — LASTING BEAUTY

	Per 100	Per 1000		Per 100	Per 1000
<i>Abies concolor</i> (White Fir)			<i>Ilex crenata rotundifolia</i>		
Symmetrical growth and beautiful bluish foliage.			Dense dark green dwarf.		
6 to 12 ins., not transplanted	\$11.00	\$ 99.00	6 to 9 ins., once transplanted	\$20.00	\$180.00
<i>Abies lasiocarpa arizonica</i> (Corkbark Fir)			<i>Juniperus chinensis pfitzeriana aurea</i>		
Unusual bluish-green column.			(Gold Pfitzer Juniper)		
6 to 9 ins., not transplanted	12.00	108.00	Luxuriant golden spreader.		
<i>Azalea Sherwood Red</i>			6 to 9 ins., once transplanted	21.00	189.00
Brilliant blood-red.			<i>Juniperus chinensis sargentii</i>		
3 to 6 ins., once transplanted	16.00	144.00	(Blue Sargent Juniper)		
<i>Cephalotaxus harringtonia fastigiata</i> (Plum Yew)			Incomparable blue-green creeper.		
Handsome evergreen column.			6 to 9 ins., once transplanted	21.00	189.00
6 to 9 ins., once transplanted	21.00	189.00	<i>Juniperus chinensis prostrata aurea variegata</i>		
<i>Chamaecyparis lawsoniana taranathensis</i>			(Gold Variegated Creeping Juniper)		
Splendid new dark green cypress.			Foliage splashed bright gold.		
6 to 9 ins., once transplanted	21.00	189.00	3 to 6 ins., once transplanted	17.00	153.00
<i>Chamaecyparis obtusa</i> (Hinoki Cypress)			<i>Juniperus japonica bandai sugi aurea</i>		
Layers of dark green foliage.			Magnificent dwarf gold-plumed juniper.		
3 to 6 ins., once transplanted	18.00	162.00	6 to 9 ins., once transplanted	29.00	261.00
<i>Chamaecyparis obtusa torulosa</i>			<i>Juniperus squamata meyeri</i>		
Exciting dwarf with twisted foliage.			(Meyer Juniper)		
3 to 6 ins., once transplanted	20.00	180.00	Dense, heavy, plume-like branches,		
<i>Chamaecyparis pisifera compacta nana</i>			deep blue.		
Dark green miniature globe.			6 to 9 ins., once transplanted	24.00	216.00
3 to 5 ins., once transplanted	21.00	189.00			
<i>Chamaecyparis pisifera filifera nana aurea</i> ,					
heavy type (Dwarf Golden Thread Cypress)					
A gem for planters and low foundations.					
18 to 24 ins., twice transplanted, BR	34.00	306.00			
<i>Cytisus praecox</i> (Warminster Broom)					
A multitude of rich cream flowers.					
24 to 30 ins., once transplanted, BR	28.00	252.00			
<i>Cytisus purgans</i> (Provence Broom)					
Dwarf globe, brilliant yellow flowers.					
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<i>Erica carnea King George</i>					
Completely covered with deep red flowers.					
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<i>Erica cinerea C. D. Eason</i>					
An amazing dwarf, dazzling red flowers.					
3 to 6 ins., once transplanted	15.00	135.00			
<i>Erica vagans Mrs. Maxwell</i>					
Flowers bright pink in enormous profusion.					
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Refer to our new catalog for a great wealth of other fine evergreen material—both liners and finished stock.					
<i>Euonymus radicans</i> (Wintercreeper)					
A very superior ground cover.					
12 to 24 ins., once transplanted	22.00	198.00			
<i>Hedera helix</i> (English Ivy)					
Superlative ground cover.					
1-yr. plants	8.00	72.00			
<i>Hedera helix</i> , a cut-leaved form					
Aristocratic in appearance.					
2-yr. plants	11.00	99.00			
<i>Ilex aquifolium angustifolia</i>					
(Narrowleaf Holly)					
Unique slender dark green column.					
3 to 6 ins., once transplanted	18.00	162.00			
<i>Ilex aquifolium pyramidalis</i>					
(Pyramidal Holly)					
Great masses of bright red berries.					
3 to 6 ins., once transplanted	20.00	180.00			

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1. These prices include expert packing.
2. Prices on BR stock F.O.B. Gresham.
3. All others F.O.B. destination any place in continental U. S. and Canada. No hidden extras.
4. 25 at 100 rate; 250 at 1000 rate. 25% down.

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That Red Cedar is not a cedar.

Kalmia latifolia (Mountain Laurel)

Compact shrub, bouquets of lively flowers.

12 to 15 ins., once transplanted

29.00 261.00

Mahonia aquifolium (Oregon Grape)

An ornate little evergreen shrub.

3 to 6 ins., not transplanted

8.00 72.00

Pernettya mucronata (Chilean Pernettya)

Red-berried. A favorite.

6 to 9 ins., once transplanted

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Picea excelsa aurea (Golden Norway Spruce)

Hardy, rapid-growing, golden conifer.

9 to 12 ins., once transplanted

30.00 270.00

Picea excelsa nidiformis (Nest Spruce)

Wonderful, dwarf, dark green,

flattened globe.

3 to 6 ins., twice transplanted

20.00 180.00

Picea pungens (Green Colorado Spruce)

Handsome symmetrical, hardy tree.

15 to 18 ins., twice transplanted, BR

23.00 207.00

Pinus aristata (Bristlecone Pine)

The incredible conifer.

6 to 9 ins., not transplanted

24.00 216.00

DID YOU KNOW?

That the 50 known species of ceanothus are native only to North America

Taxus baccata procumbens

(Prostrate English Yew)

Beautiful low-growing dwarf.

9 to 12 ins., once transplanted

25.00 225.00

Thuja occidentalis pyramidalis

(American Pyramidal Arborvitae)

Popular narrow column.

3 to 6 ins., once transplanted

16.00 144.00

Viburnum rhytidophyllum

(Leatherleaf Viburnum)

Hardy, great, robust, red berry-bearer.

1 to 3 ins., once transplanted

10.00 90.00

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SHERWOOD NURSERY CO.
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CORNUS FLORIDA

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FLORIDA RUBRA

For Street Planting and Regular Type

**Abies • Ilex • Taxus • Picea • Prunus
in variety**

Tsuga canadensis and caroliniana

Pieris japonica • Acer • Betula • Malus

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Phone: HR 3-0955

SELECTED PLANTS FOR BONSAI TRAINING

	Each
Acer palmatum, 2-yr., T.	\$0.25
Chamaecyparis nootkatensis glauca compacta, 2½-in. pots	.40
Cryptomeria japonica lobbi nana, 2¼-in. pots	.50
Picea abies clanbrasiliiana, 2¼-in. pots	.50
Picea abies nidiformis, 2¼-in. pots	.50
Picea jezoensis hondoensis, 2¼-in. pots	.30
Pinus aristata, 2¼-in. pots	.30
Pinus mughus, 3-yr., S.	.20
Wisteria sinensis, 2-yr., S.	.20

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10,000 beautiful Scotch Pine,
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PINE
SPRUCE** **SEEDLINGS**
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Presents information on materials
and planting techniques, pruning
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individual creations and special
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Price, \$2.95, postpaid

AMERICAN NURSERYMAN
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LARGE PINK DOGWOOD

Well-spaced, 3x6 ft., 6 to 8 ft. high,
full of buds.

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Clinton, Conn.

LINING-OUT STOCK

Seedlings, Rooted Cuttings
and Transplants

Write for list.

LEGHORN'S EVERGREEN NURSERY CO., INC.
50 Geer St. Cromwell, Conn.

urer of the May Broadcasting Co. in 1938. He was also active in the radio broadcasting field. Mr. Sawyer served in 35 offices and committees of seed organizations throughout Iowa and the nation. President of the American Seed Trade Association in 1950, he had been elected to honorary membership in that group.

Besides extensive activity in educational circles in his state, Mr. Sawyer was an intense worker in the Masonic order and in the Baptist church of which he was a member. He was also a member of the American Legion, having served in World War I; the Shenandoah chamber of commerce, and the Rotary Club.

Surviving are the widow, Marie; two sons, Tom and John; two brothers, and a sister.

Matthew S. Shamburger

Matthew S. Shamburger, 87, pioneer rose grower, died at his home October 10 after a long illness. Prior to his retirement seven years ago, Mr. Shamburger owned and operated the Shamburger Nursery, Tyler, Tex. The firm is now headed by his son, Carl. Mr. Shamburger had been active in the Texas Association of Nurserymen and Texas Rose Research Foundation. Survivors include two sons, Carl and Maurice; a daughter, Margaret Morris; all of Tyler, and three brothers.

Russell Sturzebecker

Russell Sturzebecker, 69, Lansdale, Pa., died October 6 at his home after a long illness. He was operator of Evergreen Nurseries, Lansdale, for 40 years. Mr. Sturzebecker formerly served as a deputy game protector for 32 years, working with the Pennsylvania game commission. Survivors include his widow, Helen K.; a son, and two daughters.

Robert A. Horn

Robert A. Horn, 26, of Horn Nursery, Dolyestown, Pa., died October 1 at the Abington Memorial hospital as the result of injuries suffered in a recent automobile accident. He had been co-owner of the nursery firm with his mother, Mrs. Mary Horn, since the death of his father, Robert S., in 1957. Besides his mother, he is survived by his widow, Carol, and two daughters.

Augustus L. Kurtz

Augustus L. Kurtz, owner of Verdant Valley Farm, Los Altos, Calif., died September 24 at Wat-

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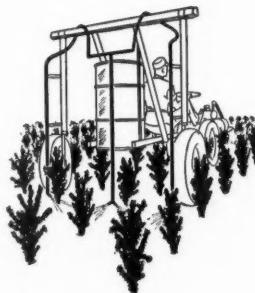
WEED CONTROL

One application applied prior to weed emergence in fall or early spring will control most annual broadleaf weeds and grasses.

- Three years commercial use.
- Safe to nursery stock when used according to label directions.
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**Weed control savings up to
\$180.00 per acre have been obtained.**

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In Canada write to: FISONS (CANADA) LIMITED, 1893 Davenport Road, Toronto, Canada

LINING-OUT STOCK

	Each Per 100	Each Per 100
<i>Acer palmatum</i> 3-yr., T., S., grafting size.	.50	.12
<i>Acer palmatum atropurpureum</i> 2-yr., grafts	1.50	1.25
3-yr., grafts	2.00	1.75
<i>Chamaecyparis obtusa gracilis</i> 1-yr., grafts	.85	.75
<i>Fagus sylvatica, Rivers (Purple Beech)</i> 1-yr., grafts	1.00	.90
<i>Fagus sylvatica, Weeping</i> 1-yr., grafts	1.00	.90
2-yr., grafts	1.75	1.50
<i>Fagus sylvatica, Fernleaf</i> 1-yr., grafts	1.25	1.10
2-yr., grafts	2.00	1.75
<i>Fagus sylvatica, Tricolor</i> 1-yr., grafts	1.25	1.10
<i>Picea, Koster (Blue Spruce)</i> 1 yr., grafts, heavy	1.75	1.50
<i>Pinus cembra</i> 1-yr., grafts, heavy	1.25	1.00
<i>Sclerodipteryx verticillata</i> 2-yr., S., peat pots	.50	.45
<i>Taxus cuspidata, densiformis, hatfieldi,</i> <i>frutescens, Hicksi and Vermeulen</i> 2-yr., T., beds	.25	.20
3-yr., T., beds	.35	.30
6-yr., TT, field rows, ideal for canning	.80	.75
<i>Tsuga, Sargent Weeping (Hemlock)</i> 1-yr., grafts	1.00	.90
Finished <i>Taxus</i> in many sizes.		

All stock certified for western shipment.

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Bald Hill Rd.

Pontiac, R. I.



PRINCETON NURSERIES

1300 acres devoted to the production of the finest in ornamental plants.

Featuring shade and flowering trees in wide assortment.

Flowering shrubs, hedge plants, ground covers, evergreens, azaleas, vines, etc.

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AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES
EXMORE, VA.

sonville at the age of 72. A nurseryman for 50 years, Mr. Kurtz had operated the Home Garden Nursery at Palo Alto for over 25 years and the present nursery for over 15 years. Survivors include his widow, Marguerite, and two children.

J. Ralph Weir

J. Ralph Weir, 71, superintendent of Plumfield Nurseries, Inc., Fremont, Neb., died September 4 after four months of illness.

He was born February 1, 1890, at Clay Center, Neb., and at an early age moved with his parents to Shenandoah, Ia. In 1907 he went to Fremont and worked for Plumfield Nurseries until his death. He was widely known and recognized as an expert plantsman and propagator.

He was a member of the Methodist church, Masonic Lodge, Modern Woodmen and Izaak Walton League and served on the city park board for three terms.

Surviving are the widow, Ina; one daughter, Mrs. Charles Fisher, Lincoln, Neb., and one sister, Mrs. Mabel De Battie, Des Moines, Ia.

Ray C. Simpson

Ray C. Simpson, retired Oregon nurseryman, died September 21 at the age of 70. He had been a partner in the original Lewis & Simpson Nursery, at Troutdale, and was also a past president of the Oregon Association of Nurserymen. He is survived by his widow, two daughters and a sister.

Anthony Piccionelli

Anthony Piccionelli, who had owned and operated the East Haven Nursery, East Haven, Conn., for more than 35 years, died September 23 after suffering a heart attack in his home. He is survived by his widow, Marie Louise; three daughters, and two sons.

Kelly Potter

Kelly Potter, formerly associated with the H. R. Potter Nursery, Joelton, Tenn., died September 26 at St. Thomas hospital, Gallatin, after suffering a heart attack. He was 46 years old. Survivors include his widow, Mary; a son; two daughters; a stepson, and two brothers.

Edwin A. Swift

Edwin A. Swift, 66, a retired nurseryman, died September 30. Until this past July, he had operated the E. A. Swift & Son Nursery, Henrietta, N. Y. The business will be continued by a son, Edward N. Other survivors include his widow, Marie; two sons, Norman O. and

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NURSERIES**
*Wholesale
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Better Bushes at old-fashioned prices

Well-sheared B & B evergreens, broad-leaves, deciduous shrubs, shade and flowering trees. We invite you to visit our nursery and compare our prices. See our classified ad in this issue.

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By R. P. Korboe

Shows how to plan and do all your landscape gardening the easiest and most economical way. Instructions in landscape sketching — how to make garden plans and design your property. Includes gardening, grading, soils, drives and walks, foundation plantings, lawns, outdoor living areas, shrubs and flowers, ground covers, tree care and maintenance and regional planting guide. 368 p., hundreds of pictures, plans and diagrams. (1954).

Price, \$4.95, postpaid.

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EVERGREENS

1000 acres of choice Evergreens ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.

ROCKY HILL, CONN.



When you look for Euonymus—
LOOK for the EMERALD!
CORLISS BROS., INC. Ipswich, Mass.

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each	Each	Each	Each	Each	Each	Each	Each
	100	1000		100	1000		100	1000
	rate	rate		rate	rate		rate	rate
Abies concolor (Concolor Fir)								
4 to 6 ins., 4-yr., T.	\$0.15	\$0.12						
6 to 8 ins., 5-yr., T.	.20	.18						
8 to 15 ins., 5-yr., T.	.35	.30						
Azalea mollis (Chinese Azalea)								
5 to 8 ins., 3-yr., T., field	.25	.22						
6 to 12 ins., 4-yr., T., field	.35	.32						
Azalea mucronulatum , lavender								
6 to 8 ins., 3-yr., T.	.35	.30						
8 to 12 ins., 3-yr., T.	.40	.35						
Azalea poukhanensis , mauve								
4 to 6 ins., 4-yr., T.	.35	.32						
6 to 10 ins., 4-yr., T.	.40	.36						
Buxus sempervirens welleri								
(Weller's Hardy Boxwood)								
6 to 8 ins., 2-yr., T.	.30	.28						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 15 ins., 3-yr., T.	.45	.42						
Chamaecyparis lawsoniana aurea								
(Golden Thread Cypress)								
6 to 10 ins., 3-yr., T.	.35	...						
8 to 12 ins., 3-yr., T.	.42	...						
Chamaecyparis lawsoniana alium								
(Blue Cypress)								
6 to 8 ins., 2-yr., T.	.30	...						
8 to 12 ins., 2-yr., T.	.45	...						
10 to 15 ins., 3-yr., T.	.55	...						
Chamaecyparis plumosa aurea								
(Golden Plumed Cypress)								
6 to 8 ins., 2-yr., T.	.30	.28						
8 to 10 ins., 3-yr., T.	.35	.30						
10 to 15 ins., 3-yr., T.	.45	.40						
Chamaecyparis squamosa								
(Blue Moss Cypress)								
4 to 6 ins., 2-yr., T.	.25	...						
6 to 8 ins., 2-yr., T.	.32	...						
Euonymus fortunei coloratus								
(Prostrate Evergreen Creeper)								
Low growing.								
6 to 10 ins., 2-yr., T., field	.28	.25						
8 to 15 ins., 3-yr., T., field	.35	.30						
Euonymus fortunei erectus								
(Evergreen Big-leaved Winter Creeper)								
6 to 10 ins., 2-yr., T.	.25	.22						
10 to 15 ins., 3-yr., T.	.35	.32						
12 to 18 ins., 3-yr., T.	.42	.38						
Euonymus radicans vegetus								
(Evergreen Winter Creeper)								
6 to 10 ins., 2-yr., T.	.35	...						
10 to 15 ins., 3-yr., T.	.45	...						
12 to 18 ins., 3-yr., T.	.55	...						
Ilex crenata (Pyramidal Japanese Holly)								
3 to 6 ins., 1-yr., T.	.25	.22						
8 to 12 ins., 2-yr., T.	.35	.32						
10 to 15 ins., 3-yr., T.	.42	.38						
12 to 18 ins., 4-yr., T.	.48	.42						
Ilex crenata convexa (Bullata)								
8 to 10 ins., 2-yr., T.	.38	.35						
10 to 15 ins., 2-yr., T.	.45	.40						
12 to 15 ins., 3-yr., T.	.55	.48						
12 to 18 ins., 5-yr., T., field, cutback	.90	.75						
Ilex crenata helleri, very dwarf								
6 to 8 ins., 4-yr., T.	.45	...						
8 to 10 ins., 4-yr., T.	.75	...						
10 to 12 ins., 5-yr., T., heavy	.90	...						
Ilex crenata hetzii, large glossy leaf								
6 to 10 ins., 2-yr., T.	.35	.30						
10 to 15 ins., 3-yr., T.	.45	.40						
12 to 15 ins., 4-yr., T.	.55	.48						
Ilex rotundifolia (Round-leaved Holly)								
8 to 10 ins., 2-yr., T.	.35	.30						
10 to 12 ins., 3-yr., T.	.40	.35						
12 to 15 ins., 4-yr., T.	.50	.45						
12 to 15 ins., 5-yr., T., heavy	.65	.60						
Juniperus , <i>compacta</i> fastigiata								
(Compact Irish Juniper)								
4 to 8 ins., 2-yr., T.	.20	.18						
8 to 10 ins., 2-yr., T.	.25	.22						
10 to 12 ins., 2-yr., T.	.35	.30						
10 to 15 ins., 3-yr., T.	.45	.40						
Juniperus , <i>canadensis</i> aurea								
(Golden Canadian Juniper)								
6 to 8 ins., 2-yr., T.	.35	...						
8 to 10 ins., 3-yr., T.	.45	...						
Juniperus , <i>chinensis</i> pfitzeriana								
6 to 8 ins., 2-yr., T.	.32	.30						
8 to 10 ins., 2-yr., T.	.45	.40						
10 to 15 ins., 3-yr., T.	.50	.45						
Juniperus , <i>hicksii</i> fastigiata								
(Compact Irish Juniper)								
4 to 8 ins., 2-yr., T.	.20	.18						
8 to 10 ins., 2-yr., T.	.25	.22						
10 to 12 ins., 2-yr., T.	.35	.30						
12 to 15 ins., 3-yr., T.	.45	.40						
Juniperus , <i>glauca hetzii (Hetz Juniper)</i>								
4 to 6 ins., 2-yr., T.	\$.20	\$.18						
6 to 10 ins., 2-yr., T.	.25	.22						
8 to 12 ins., 2-yr., T.	.32	.28						
10 to 15 ins., 2-yr., T.	.35	.30						
SPECIAL —Heavy field liners for planting out.								
8 to 15 ins., 3-yr., T.	\$250.00	per 1000						
Order not fewer than 500.								
Spruce, Norway (<i>Picea excelsa</i>)								
5 to 10 ins., 4-yr., T.	\$.15	\$.06						
10 to 12 ins., 4-yr., T.	.20	.12						
12 to 15 ins., 5-yr., T.	.25	.18						
SPECIAL —Heavy field liners								
8 to 15 ins., 4-yr., T.	\$95.00	per 1000						
Order not fewer than 500.								
Spruce, White (<i>Picea alba</i>)								
6 to 10 ins., 5-yr., T.	.20	.16						
10 to 12 ins., 5-yr., T.	.25	.13						
12 to 18 ins., 5-yr., T.	.28	.14						
SPECIAL —Heavy field liners								
8 to 15 ins., 5-yr., T.	\$190.00	per 1000						
Order minimum of 500 at this price.								
Taxus capitata (Upright Japanese Yew)								
6 to 8 ins., 4-yr., S.	.15	.12						
8 to 10 ins., 4-yr., S.	.18	.16						
10 to 12 ins., 4-yr., S.	.22	.19						
10 to 12 ins., 3-yr., T.	.28	.25						
6 to 8 ins., 3-yr., T.	.30	.25						
8 to 10 ins., 4-yr., T.	.35	.32						
8 to 10 ins., 3-yr., T.	.30	.28						
10 to 12 ins., 3-yr., T.	.35	.32						
Taxus cuspidata (Spreading Yew)								
4 to 6 ins., 2-yr., T., beds.	.20	.18						
6 to 8 ins., 2-yr., T., beds.	.25	.22						
8 to 10 ins., 2-yr., T., ctbk.	.40	.38						
10 to 12 ins., 3-yr., T., ctbk.	.45	.40						
10 to 15 ins., 4-yr., T., field.	.65	.55						
Taxus media brownii (Browns Yew)								
8 to 10 ins., 3-yr., T.	.45	...						
10 to 12 ins., 4-yr., T.	.55	...						
12 to 15 ins., 5-yr., T., ctbk.	.75	...						
Taxus media hicksii (Hicks Yew)								
8 to 10 ins., 2-yr., T., ctbk.	.35	.30						
10 to 12 ins., 3-yr., T., ctbk.	.45	.40						
12 to 15 ins., 4-yr., T., ctbk.	.55	.50						
Taxus occidentalis douglasii aurea								
8 to 10 ins., 3-yr., T.	.45	...						
10 to 12 ins., 3-yr., T.	.55	...						
12 to 15 ins., 4-yr., T.	.65	...						
Taxus occidentalis elegantissima lutea								
(Golden Tipped Arborvitae)								
6 to 8 ins., 2-yr., T.	.30	...						
8 to 10 ins., 3-yr., T.	.35	...						
10 to 12 ins., 3-yr., T.	.40	...						
12 to 15 ins., 4-yr., T.	.50	...						
15 to 20 ins., 5-yr., T.	.65	...						
Taxus occidentalis globosa								
(Woodward Arborvitae)								
6 to 8 ins., 2-yr., T.	.30	.25						
8 to 10 ins., 3-yr., T.	.35	.32						
10 to 15 ins., 3-yr., T.	.45	.40						
12 to 15 ins., 4-yr., T.	.50	.45						
15 to 20 ins., 5-yr., T.	.65	.60						
SPECIAL —Heavy field liners								
8 to 12 ins., 4-yr., T.	\$300.00	per 1000						
Order minimum of 500 at this price.								
Thuja occidentalis pyramidalis								
(Pyramidal Arborvitae)								
8 to 10 ins., 2-yr., T.	.38	.35						
10 to 12 ins., 2-yr., T.	.45	.42						
12 to 15 ins., 3-yr., T.	.55	.52						
15 to 18 ins., 4-yr., T.	.65	.62						
18 to 24 ins., 5-yr., T.	.75	.72						
Tsuga canadensis (Hemlock)								
4 to 6 ins., 3-yr., T.	.25	.20						
6 to 8 ins., 3-yr., T.	.35	.32						
8 to 12 ins., 4-yr., T.	.40	.35						
Viburnum opulus nanum								
(Dwarf Viburnum)								
1-yr., field, beds, T.	.25	.22						
2-yr., field, beds, T.	.32	.28						

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BE READY FOR THE FUTURE—PROJECT THE VALUE OF THIS PLANT MATERIAL IN JUST FIVE SHORT YEARS.

DON'T BE ASLEEP — REAP!

Quan.	100	1000	Quan.	100	1000
	rate	rate		rate	rate
Acer pinnata	\$0.18	\$0.16	Pachistima canbyi, ground cover	\$0.50	\$0.45
2200 2-yr., 12 to 18 ins., S.	.18	.16	200 2-yr., pots	.17	.16
Berberis Thunbergii atropurpurea (Crimson Pygmy)			3100 2½-in. pots, 1 stem...	.17	.16
700 3-yr., 4 to 6 ins.	.40	.35	2700 2½-in. pots, 2 stems...	.24	.21
Cornus elegantissima			Prunus cistena		
480 2-yr., T.	.20	.18	1000 12 to 15 ins., for canning	.35	.30
Euonymus alatus			Prunus glandulosa		
700 3-yr., 12 to 15 ins., T.	.40	.35	2000 12 to 18 ins., T.	.18	.17½
Euonymus alatus compactus			Pseudosuga taxifolia		
1230 3-yr., T.	.40	.35	360 4-yr., 6 to 12 ins., TT.	.32	.28
Euonymus fortunei vegetus			Pyracantha coccinea lalandii		
600 2-yr., pots	.22	.18	400 2-yr., pots	.32	.28
1925 3-yr., T.	.70	.65	1580 2-yr., T.	.45	.38
Euonymus fortunei radicans Sarcoxie			Rhodotypos kerrioides		
2000 2-yr.	.30	.25	1600 2-yr., 6 to 12 ins., multi-stemmed	.22	.18
560 3-yr., 8 to 10 ins., T.	.40	.35	Sorbus aucuparia		
Forsythia Beatrice Farrand			1000 1-yr., 12 to 18 ins., S.	.14	.11
1625 1-yr., T.	.35	.30	250 3 to 4 ft., T.	.58	.52
Forsythia bronxianna			100 4 to 5 ft., T.	.110	...
1460 1-yr., T.	.38	.32	Symphoricarpos hancockii		
Hydrangea A. G.			500 2-yr., T.	.25	.22
500 1-yr., cuttings	.18	.16	Taxus cuspidata capitata		
Ligustrum vicary			9000 3-yr., S., root-pruned	.16	.14
3000 2-yr., T.	.20	.18	Taxus densiformis		
Magnolia soulangeana			10,000 2-yr., T.	.30	.28
250 4-in. pots	.65	.55	Taxus media wardii		
Magnolia stellata			500 3-yr., T.	.42	.38
300 4-in. pots	.80	.70	Teucrium chamaedrys		

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38¢ per 100; 35¢ per 1000
110 Atrosanguinea, brilliant carmine
172 Baccata Jacki, bright red fruit
355 Dorothae, pink
565 Flame, white flowers, red fruit
90 Dittman, double pink
355 Makamik, purplish-red, red fruit
340 Micromalus, pink flowers, yellow fruit
257 Purpurea elyri, wine-red
309 Purpurea Irene, darkest of all reds
253 Purpurea lemoinei, bright wine red
148 Marshall Oyama, red fruit, pyramidal
675 Scheideckeri, semi-double pink
135 Zumi calocarpa, red-orange fruit
1080 Oekonomierat Echtermeyer, weeping crab, purplish-red flowers and fruit
42¢ per 100 rate; 38¢ per 1000 rate

42¢ per 100 rate; 38¢ per 1000 rate

1800 2-yr., pots	.30	.28
Thuya occidentalis woodwardi	.40	.35
300 3-yr., T.	.40	.35
Viburnum burkwoodi	.40	.35
720 3-yr., 6 to 12 ins., S., T.	.40	.35
Viburnum lantana		
1150 2-yr., 4 to 10 ins., T.	.22	.18
Viburnum lentago		
1790 2-yr., 2 to 3 ft., S., T.	.32	.28
Viburnum opulus nanum		
100 3-yr., 4 to 10 ins., TT.	.35	.32
Vinca minor		
2700 1-yr., pots	.20	.18
Weigela Bristol Ruby		
1000 1-yr., cuttings	.20	.18
Weigela vanickei		
1000 1-yr., cuttings	.20	.18

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\$7.50 per 100; \$65.00 per 1000.

Feat pots,

\$18.00 per 100; \$150.00 per 1000.

BEARDSLEE NURSERY Perry, Ohio

CALIFORNIA DISCUSSIONS

[Continued from page 8]

quired to produce a plant, with resulting price problems.

Profit Remains Chief Concern

Government influence, headed by taxation, may turn out to be the biggest problem of all. Labor unions pose a constant threat. But the main concern of all retailers must be to make a profit. The chances of the small man-and-wife nursery are just as good as another's. It depends upon the ability of the individual to set his price at a level that will yield a profit and attract customers. There is no single formula for this.

From his vantage point as A. A. N. president, L. H. McGuire has become familiar with nursery problems throughout the country. He sees the management-profit area



30,427 Reasons Why You Should Think Twice . . .



. . . about where you buy your taxus, as well as other nursery stock. Our plants are of definitely superior quality. Why? It is the result of a rigid schedule of transplantings to give the root system adequate formation to minimize transplanting shock, and give faster growth after planting. It reduces losses to even less than negligible.

A program of spraying brings you disease- and insect-free plants. The fertilization schedule, as well as natural fertility, gives you the most desirable in growth and color.

Klyn's taxus are heavily sheared to form a dense, well-shaped body, truly masterpieces, even in the 12"-15" size. The plants

you receive will be readily saleable, right down to the last plant.

Klyn's plants are dug and handled only as the specimens they are. And we say that if you sell Klyn's taxus, you can stake your reputation on them.

Try — and see!

Like nursery stock, Klyn takes pride in its roses. There's a shipment for you, awaiting your O.K. for fall or spring delivery. Write for the '62 catalog that lists a selection of the finest you'll find anywhere.

New '62 Catalog—
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(*Salix Umbraculifera*)



A handsome tree that is remarkable because it has a formal, compact and perfectly symmetrical rounded top without trimming. Withstands extreme heat and drought. A desirable ornamental tree for lawn or formal planting or for planting in restricted areas and under utility wires. Foliage stays green until late Autumn.

	Per 10	Per 100	Per 1000
6 to 8 feet, 2 year	\$15.00	\$35.00	—
5 to 6 feet, 2 year	11.00	100.00	\$900.00
4 to 5 feet, 2 year	7.50	70.00	650.00
3 to 4 feet, 2 year	6.50	60.00	500.00
4 to 5 feet, 1 year	4.00	35.00	—
3 to 4 feet, 1 year	3.00	25.00	—
2 to 3 feet, 1 year	2.50	20.00	—

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Rooted cuttings

\$10.00 per 100, \$80.00 per 1000

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Perry, Ohio

lagging far behind sales, production, etc. In fact, the answers to all the other problems lie in this area, he feels.

Sales volume alone will not supply the answers. One must make a profit or he will just lose more with a larger volume. Obviously, the small nurseryman cannot meet the prices of all the loss leaders offered by competitive outlets. Yet this is the direction being taken by many without regard to the effect on their over-all profit picture.

F. Raymond Brush, A. A. N. executive assistant, warned of the trend in government, from local to national, toward nicking away at free management privileges. Taxation is the most obvious area, with the budget up \$9 billion over last year's.

Also affecting nursery management are actions of the interstate commerce commission, postal regulations, quarantines, inspections, etc.

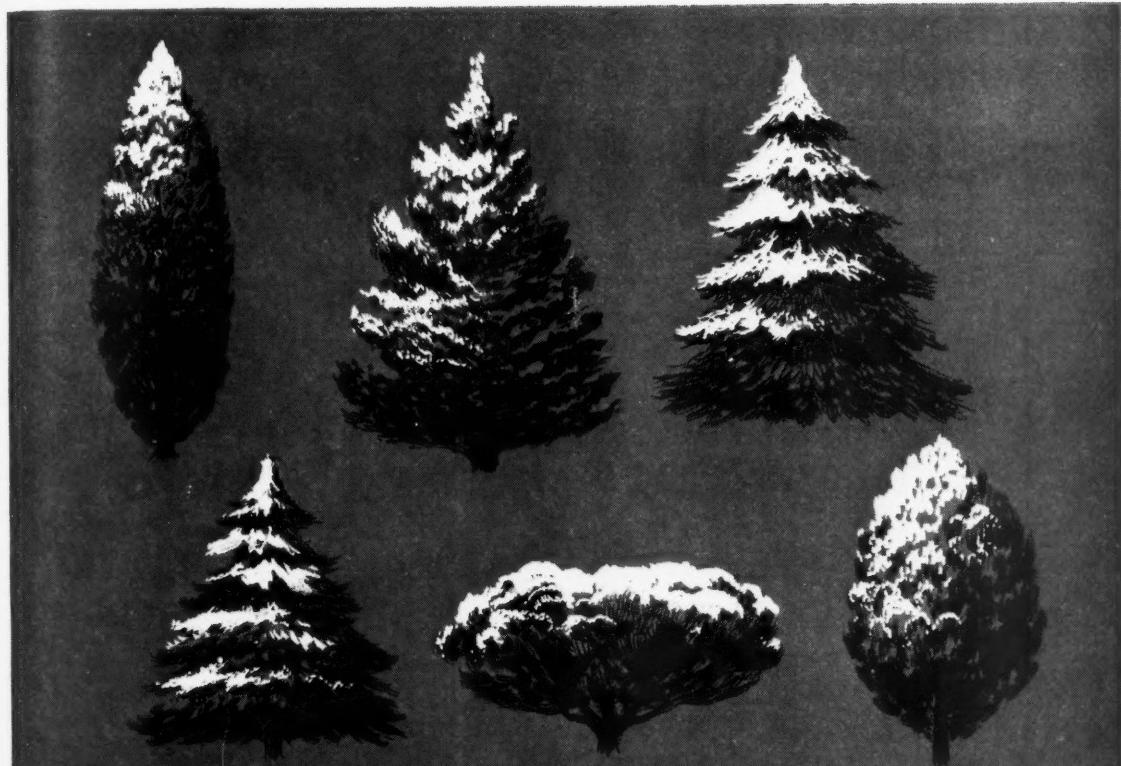
The one solution is to group together to do things the individual cannot do for himself. Mr. Brush outlined activities and areas in which the A. A. N. is helping nurserymen.

Since management had received so much attention during the convention, he pointed out that the A. A. N. management institutes have helped many owners and managers and are helping to train young men who will assume top management positions in the industry five, 10 or 15 years from now—and it appears that utmost ability will be needed in coming years.

Retailing Trends

The presentation on modern retailing was made by Richmond Lewis, merchandising manager of hardware and appliances, Sears Roebuck & Co., Los Angeles. Everybody "knows" Sears, Mr. Lewis stated, yet the firm recently embarked upon an advertising program in national magazines for the first time to project an image. Sears has changed over the years, although following basic premises. One of the recent changes is its entry into the nursery business, a long-considered project that is now receiving heavy emphasis. The newest of the nursery stores is 17,000 square feet.

However, nursery stock makes up only a small part of these stores' volume—25 per cent at best. Another 25 per cent is in plant foods, soil conditioners, etc.; 13 per cent in patio supplies, 25 per cent in miscellaneous items such as con-



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IN MAJOR GARDEN MAGAZINES
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Retail Sizes:
8 oz., 1 pt., 1 qt.

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1 gal., 5 gal., 30 gal.

Write for descriptive
professional literature.

APPLY now... for winter protection at lowest cost. Wilt Pruf Anti-Transpirant Spray stops stock losses due to winter-kill, transplanting shock and other wilting injuries. Save those valuable plants for next spring's sales for as little as 4¢ to 5¢ per plant!

SELL now... it's your one sure answer to the seasonal slump. Gardeners need winter-kill protection, too, and Wilt Pruf demand picks up where other garden items leave off!

SELL this Christmas...
Wilt Pruf protects your customers' Christmas trees . . . stops messy needle-drop, reduces fire hazards. Feature Wilt Pruf in Christmas displays, and add a plus to your holiday profits!

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QUALITY TRANSPLANTS and SEEDLINGS

	Per 100	Per 1000
TAXUS CUSPIDATA CAPITATA (Upright Yew), seed-grown		
XX, 6 to 10 ins.	\$28.00	
(3-0), 4 to 8 ins.	9.00	\$75.00
TAXUS DENSIFORMIS		
3-yr., T., cutting grown		
6 to 8 ins.	45.00	
COLORADO BLUE SPRUCE		
Bed run as to color		
X, 10 to 14 ins.	18.00	135.00
X, 6 to 10 ins.	12.00	90.00
(3-1), 6 to 12 ins.	10.00	40.00
(3-0), 6 to 10 ins.	6.00	25.00
COLORADO BLUE SPRUCE		
Carefully color-selected; every green spruce removed and every blue left in.	Per 100	
X, 6 to 12 ins.	\$45.00	
XX, 10 to 15 ins.	175.00	
XX, 15 to 18 ins.	225.00	
WHITE SPRUCE		
(3-0), 8 to 14 ins.	6.00	25.00
(3-1), 6 to 12 ins.	10.00	40.00
(2-2), 8 to 14 ins.	14.00	110.00
NORWAY SPRUCE		
(3-0), 8 to 14 ins.	6.00	25.00
(3-1), 6 to 12 ins.	10.00	40.00
X, 10 to 15 ins.	14.00	90.00
understock, 5/16-in. cal. or over	12.00	75.00
BLACK HILLS SPRUCE		
(3-0), 8 to 14 ins.	6.00	25.00
(3-1), 6 to 12 ins.	10.00	40.00
(3-2), 8 to 14 ins.	14.00	90.00
DOUGLAS FIR		
Fraser Forest Fir		
(3-0), 8 to 12 ins.	8.00	40.00
Caesia Fir		
(3-0), 8 to 12 ins.	8.00	40.00
Taxifolia glauca		
(3-0), 4 to 8 ins.	6.00	27.50
(3-0), 8 to 12 ins.	8.00	35.00
(Sheared)		
XX, 9 to 12 ins.	35.00	
SCOTCH PINE, AUVERGNE		
(2-0), 4 to 6 ins.	4.00	14.00
(3-0), 6 to 12 ins.	4.00	18.00
(2-1), 3 to 6 ins.	8.00	32.50
SCOTCH PINE, RIGA		
(2-0), 4 to 6 ins.	4.00	14.00
(3-0), 6 to 12 ins.	4.00	18.00
XX, 12 to 24 ins.	40.00	
WHITE PINE		
XX, 12 to 24 ins.	40.00	
MUGHO PINE		
Top-sheared each year		
(3-0), 2 to 4 ins.	7.00	45.00
XX, 4 to 6 ins.	20.00	
XX, 6 to 9 ins.	40.00	
XX, 9 to 12 ins.	60.00	
AUSTRIAN PINE		
(3-0), 6 to 12 ins.	4.00	18.00
X, 12 to 18 ins.	10.00	55.00
GREEN TO BLUE SHEARED SCOTCH PINE CHRISTMAS TREES		
Send for folder.		

Free illustrated list shows and describes tree quality.

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MATTHEWS NURSERY
Harbor Springs, Mich.

ainers, seeds and bulbs, and about 12 per cent in the pet shop.

Mr. Lewis proceeded to explore the changes in retailing. Ten or 15 years ago customers were loyal to a chosen store. Why? Because it gave them personal attention and recognition as an individual, because it was a modern store or because it offered prestige or service.

Today, the consumer is price-conscious, wandering and not concerned about keeping up with the Joneses, but satisfying himself—he has more than the Joneses ever had.

The reasons for remaining a steady customer are gone. Credit, parking, all the attractions are offered everywhere. The price must be right, or the appeal of a store's newness or exclusiveness will not last. Store hours are now adapted to the customer's convenience.

More Attention to Service

Services are coming back—and they are coming back via the mass merchandiser. Most of these services are free, but the store's goods carry no higher markup. Formerly services were a part of overhead; today many of them carry their own fee and can be net income. Customers will pay for services—if they can have the privilege of doing without them.

Mr. Lewis urged that retailers treat each display area as if it were the only one in the customer's view. It should be arranged, rearranged and rearranged again.

The nursery business is endowed with certain advantages. The nurseryman's customers come into his store and want to talk to him about their garden problems. In the supermarket, the customers push carts along with no one to talk to.

Mr. Lewis advises taking advantage of this situation by knowing each customer by name. Do not let him wander aimlessly. Give fully of the services, experience and knowledge that only you can offer.

California Outlook

Harold L. Buma, chief of regional research, economic department, Bank of America, San Francisco, presented the "Economic Outlook for California for the Sixties," viewing the coming years with definite, though cautious, optimism.

He began by reviewing the growth which has brought California's population from 10 million to 15 million in 10 years. Of this increase, he stated, the 3.2 million newcomers represent the largest immigration in the history of the world. Why? In spite of all that is

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Athens, Ala.

FIELD-GROWN and POTTED LINERS CONTAINER EVERGREENS • FINISHED STOCK

	Per 100	Per 1000		Per 100	Per 1000
<i>Biota aurea nana</i>			<i>Euonymus Newport, big-leaved</i>		
<i>Biota bakeri</i>			<i>Euonymus Newport, little-leaved</i>		
<i>Biota Blue Cone</i>			2-yr., field-grown, 8 to 15 ins.	\$17.50	\$150.00
<i>Biota excelsa</i>			<i>Euonymus pulchellus</i>		
<i>Biota fruitlandi</i>			2 1/4-in. pots	17.50	150.00
<i>Biota woodwardi</i>			<i>Hypericum calycinum</i>		
2 1/2-in. pots	\$17.50	\$150.00	<i>Hypericum hidcote</i>		
<i>Juniper, Andorra</i>			2 1/4-in. pots	15.00	
1-yr., field-grown, 6 to 8 ins.	12.00	100.00	<i>Ilex burfordi</i>		
1-yr., field-grown, 8 to 12 ins.	15.00	120.00	<i>Ilex cassina angustifolia</i>		
3-yr., field-grown, 12 to 15 ins.	40.00	350.00	<i>Ilex convexa</i>		
<i>Juniper, Armstrong</i>			<i>Ilex hetzi</i>		
1-yr., field-grown, 6 to 9 ins.	17.50	150.00	<i>Ilex microphylla</i>		
2-yr., field-grown, 8 to 12 ins.	22.50	200.00	<i>Ilex rotundifolia</i>		
<i>Juniper, conferta</i>			2 1/4-in. pots	17.50	150.00
1-yr., field-grown, 8 to 12 ins.	15.00	120.00	<i>Jasminum floridum</i>		
<i>Juniper, excelsa stricta</i>			<i>Jasminum nudiflorum</i>		
1-yr., field-grown, 8 to 12 ins.	12.00	100.00	2-yr., field-grown, 12 to 18 ins.	20.00	175.00
<i>Juniper, fastigiata</i>			<i>Laurocerasus (Carolina Laurel Cherry)</i>		
1-yr., field-grown, 6 to 12 ins.	15.00	120.00	8 to 12 ins., field-grown, S.	5.00	40.00
2-yr., field-grown, 8 to 15 ins.	17.50	150.00	12 to 15 ins., field-grown, S.	6.00	50.00
<i>Juniper, glauca hetzi</i>			<i>Laurocerasus schipkaensis</i>		
2 1/4-in. pots	17.50	150.00	2 1/2-in. pots	25.00	200.00
1-yr., field-grown, 6 to 12 ins.	12.00	100.00	<i>Ligustrum japonicum</i>		
2-yr., field-grown, 8 to 15 ins.	17.50	150.00	8 to 12 ins., field-grown, S.	6.00	50.00
<i>Juniper, hibernica</i>			<i>Ligustrum lucidum</i>		
1-yr., field-grown, 6 to 12 ins.	15.00	120.00	<i>Ligustrum macrophyllum</i>		
2-yr., field-grown, 8 to 15 ins.	17.50	150.00	<i>Ligustrum pendulum</i>		
<i>Juniper, Nick's Compact</i>			2-yr., field-grown, 8 to 12 ins.	17.50	150.00
2 1/4-in. pots	17.50	150.00	2-yr., field-grown, 12 to 15 ins.	20.00	175.00
<i>Juniper, Pfitzer</i>			<i>Ligustrum sinense</i>		
2-yr., field-grown, 8 to 12 ins.	22.50	200.00	1-yr., field-grown, 8 to 12 ins., S.	1.50	12.00
3-yr., field-grown, 12 to 15 ins.	40.00	350.00	1-yr., field-grown, 12 to 18 ins., S.	2.00	15.00
<i>Juniper, procumbens</i>			<i>Lonicera yunnanensis</i>		
1-yr., field-grown, 6 to 12 ins.	15.00	....	2-yr., field-grown, 8 to 12 ins.	17.50	150.00
<i>Juniper, Savin</i>			<i>Loropetalum texanum</i>		
1-yr., field-grown, 6 to 12 ins.	12.00	100.00	2 1/4-in. pots	17.50	150.00
<i>Juniper, squamata meyeri</i>			<i>Magnolia grandiflora</i>		
2 1/2-in. pots	20.00	....	2 1/2-in. pots	17.50	150.00
<i>Juniper, Von Ehron</i>			<i>Nandina domestica</i>		
1-yr., field-grown, 6 to 12 ins.	12.00	100.00	2-yr., field-grown, 6 to 12 ins.	17.50	150.00
<i>Pinus strobus</i>			2-yr., field-grown, 12 to 15 ins.	20.00	175.00
2 1/2-in. pots, 4-yr., 6 to 8 ins.	25.00	200.00	<i>Osmanthus aquifolium</i>		
<i>Berberis, Crimson Pygmy</i>			<i>Osmanthus fortunei</i>		
<i>Berberis, julianae</i>			2 1/4-in. pots	17.50	150.00
2 1/4-in. pots	17.50	150.00			
<i>Cotoneaster horizontalis</i>					
2 1/4-in. pots	17.50	150.00			
<i>Euonymus argentea</i>					
2 1/4-in. pots	17.50	150.00			

CONIFEROUS EVERGREENS, B & B

	Each
<i>Arborvitae, Baker</i> , 30 to 36 ins.	\$1.25
<i>Ilex convexa</i> , 18 to 24 ins.	1.50
<i>Ilex hetzi</i> , 18 to 24 ins.	1.50
<i>Ilex rotundifolia</i> , 18 to 24 ins.	1.50
<i>Juniper, Andorra</i> , 18 to 24 ins.	1.50
<i>Juniper, fastigiata</i> , 3 to 4 ft.	1.25
<i>Juniper, Greek</i> , 18 to 24 ins.	1.50
<i>Juniper, hetzi glauca</i> , 24 to 30 ins.	1.50
<i>Juniper, Pfitzer</i>	
15 to 18 ins.	1.25
18 to 24 ins.	1.50

We have many items not listed in this advertisement. This includes liners, container-grown material and field-grown stock. A visit to our nursery will convince you of the quality of the material we grow.

AZALEAS IN GALLON CANS

Aladdin	Hampton Beauty
Bettina	Hinodegiri
Billy	Othello
Buccaneer	Poukhanense
Fashion	Rosebud
Fedora	Wilhelmina

60¢ each

CONTAINER-GROWN EVERGREENS, 1-Gal.

<i>Ilex burfordi</i>	<i>Juniper, Blue Pfitzer</i>
<i>Ilex convexa</i>	<i>Juniper, Nick's Compact</i>
<i>Ilex hetzi</i>	<i>Pfitzer</i>
<i>Ilex repandens</i>	<i>Ligustrum lucidum</i>
<i>Ilex rotundifolia</i>	<i>Liriope variegata</i>
<i>Juniper, Pfitzer</i>	

60¢ each

ATHENS NURSERY CO.

Athens, Ala.

TREES

That Will Make You Money

	Each
Norway Spruce , green, full	
3 to 4 ft.	\$3.25
4 to 5 ft.	4.50
5 to 6 ft.	5.50
6 to 7 ft.	6.50
Scotch Pine , blue-green, cones	
3 to 4 ft.	3.00
4 to 5 ft.	5.50
5 to 6 ft.	6.50
6 to 7 ft.	7.50
White Pine , green, full	
3 to 4 ft.	3.50
4 to 5 ft.	5.50
5 to 6 ft.	6.50
6 to 7 ft.	7.50
Red Pine	
4 to 5 ft.	5.50
5 to 6 ft.	6.50
6 to 7 ft.	7.50

100,000 Christmas Trees

Fresh Cut to Order

Each

Norway Spruce , green, full	\$2.25
5 to 7 ft.	1.50
4 to 5 ft.	1.50
Scotch Pine , blue-green, cones	1.50
No. 1, 5 to 7 ft.	.90
No. 2, 5 to 7 ft.	.90
Red Pine , green, full	1.75
No. 1, 5 to 7 ft.	.90
No. 2, 5 to 7 ft.	.90
Austrian Pine , green	2.25
No. 1, 5 to 7 ft.	2.25

Fresh Cut, High-Quality Greens

Minimum of Wood Per lb.

Scotch Pine , blue-green	5¢
Red Pine , green	5¢
Austrian Pine , green	5¢
White Pine , blue-green	8¢
Norway Spruce , dark green	5¢
500-lb. to ton lots of above greens less 1¢ per lb.	

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 - Newest and best Ground Covers
 - Rare and Unusual Hardy Plants
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Hydrangea P. G.
Hydrangea P. G. (Layers)
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Ornamental Trees
Grapevines, 1-yr.

We solicit contract growing.

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Finest Quality
PERENNIALS and SHRUBS
Write for complete trade list.
KINGWOOD NURSERIES
MENTOR, O.



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

Pyracantha Coccinea Lalandi

Commonly known as Firethorn. Our stock is grown from heavily fruiting stocks. Shrubs carry huge clusters of holly-like berries all winter. One of the most desirable foundation shrubs in the trade.

Liners, 2-in. pots, \$25.00 per 100;

\$225.00 per 1000.

Beardslee Nursery Perry, O.

said about climate and good living. Mr. Buma chalks it up mainly to new job opportunities.

Personal income in the past decade rose 122 per cent—twice the national average. This should be repeated in the present decade.

Now that the nation is coming out of the recession doldrums and, in fact, rising rapidly, California should do much better than the rest of the country in the next 18 months.

Defense expenditures are rising and California's share should increase. At present, its share is 50 per cent of civilian and 40 per cent of military in top priority fields such as missile production. Unemployment should be down to 4 per cent by the end of 1962.

Sees Production, Sales Gain

The crystal ball is hazier after 1962, but Mr. Buma expects California to secure a higher share of increasing defense expenditures. Then it should be able to increase the production of its own needs, which the increased population will buy from retailers.

The year 1970 should see over 21 million people, which would be about the same 5.1 million increase as in the 50's, but a slower growth relatively. Personal income, now at \$45 billion, should be over \$70 billion by 1970. Per capita income will rise from \$2,740 to \$3,340, or over \$9,000 per family.

Certainly there will be slack years, for business cycles still exist. There will be fierce competition, since the consumer is stocked up. Discount operations should increase, but these will be offset by increases in services, especially credit.

The demand for nursery products will rise, but good management will be the key to the success of the individual nurseryman. Small business is not in danger, except as individuals may be weak in any business. There will be more pressure on land, with prices continuing to rise, but at a decelerating pace. In the future, as in the past, Mr. Buma concluded, success will depend upon the individual's seizing his opportunities and making the most of them.

SOLD recently to Walter E. Flagg was Grogan's Windy-Lo Nursery, South Natick, Mass. Now known as the Windy-Lo Nursery, the operation has been moved to Mr. Flagg's Christmas tree farm, Route 16, 309 Eliot street, South Natick.

SUNCREST EVERGREEN NURSERIES

prove value of RUTEX for bare root shipping



**REDUCES BULK
AND WEIGHT**

**KEEPS PLANTS IN
MOIST CONDITION . . . LONGER**

**SAVES ON
SHIPPING COSTS**

Suncrest Evergreen Nurseries of Homer City, Pennsylvania are specialists in the mail order shipping of evergreen nursery stock. In a test designed to determine the advantages of RUTEX to reduce shipping costs for bare root seedlings and transplants, Suncrest used RUTEX on more than half of their annual seedling stock prior to shipment. Destinations included the West Coast, Midwest, New England States and Hawaii. Their results show that RUTEX has a decided three-way edge over conventional packing.

According to J. L. Kopach, owner of Suncrest Evergreen Nurseries,

"RUTEX proved to be a definite time saver in the preparation of seedlings for bare root shipment. Spraying the seedlings prior to packing reduced the bulk of moss usually needed thus saving space and labor."

"In addition, RUTEX treated seedlings used only two thirds the area normally required. This reduc-

tion in bulk substantially increased the total payload. As a result, shipping costs were reduced by almost a third."

"When the seedlings arrived at their destinations, they were still moist and healthy resulting in 100% customer satisfaction. Over the course of a selling season, savings were substantial."

TOP PERFORMANCE AT LOWER COST

RUTEX forms a sponge-like film over plant roots with high water-absorbing and water-retaining properties enabling plants and shrubs to stay moist and healthier over extended time intervals. Whether for bare root shipping, transplanting or dormant storage operations, RUTEX meets top performance requirements at lower cost.

For further information and a no charge sample, write to:



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A DIVISION OF A. E. STALEY MANUFACTURING COMPANY
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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

OVERPRODUCTION

While talking with other nurserymen, I am beginning to hear more frequent comments about overproduction, with its attendant worries. Overproduction once plagued my firm back in the late 1920's and early 1930's. Many (myself included) thought then that it could hardly be a serious problem again, and I do not know now whether it is or not. After World War II a great deal of propagation was necessary, and then the long building boom continued the demand. It was not these factors which made me predict that serious overproduction would not occur again, but rather the factor of rising costs.

Back in the 1920's, much of the excess production occurred when labor was being paid 25 cents or even less per hour and land was selling for \$50 per acre. If there is overproduction today, it is being done with labor paid from \$1.15 to \$2 an hour and with much nursery land selling for \$500 and more an acre. Overproduction under these circumstances is quite a feat in itself, particularly as many complain that nursery prices have not kept pace with the great increase in costs.

There is no use attempting to find a general solution to overproduction, for the problem is much more complex than that. In one sense, overproduction is a phenomenon peculiar to free enterprise and capitalism and, to that extent, is a desirable part of our economy because it acts as an indicator. Recognition of overproduction helps to keep businesses healthy by gearing propagation to probable markets.

Popular Items Often Overproduced

Oddly enough, overproduction is most likely to be found in items that have a new popularity or are enjoying a boom, often including difficult-to-propagate and once quite rare and choice plants. Overproduction has come in such items as orchids, hollies, boxwood, camellias, azaleas and roses more commonly than in fruit trees, California privet and spireas. It has come in the various taxus varieties as well as in the arborvitae, junipers

and retinosporas which they replaced.

Overproduction can exist in small quantities and later the same market can consume much greater quantities of the item. For example, 20 years ago small quantities of holly were hard to sell—later, the market expanded a hundredfold. Boxwood sold for high prices in the depression but rather poorly during the boom; now it is bringing much higher prices.

Similarly, overproduction's disadvantages may appear in the market place on rather small excesses. Unlike overproduction of products of general commerce, overproduction in the nursery business may show itself when the market calls for 10,000 of an item and 11,000 have been produced, yet the following year the call may be for 20,000. In the true sense, situations like these can hardly be termed overproduction.

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1/4-in. caliper, 8 to 12 ins. high, \$60.00 per 1000. We've had many inquiries on this item, so we advise prompt ordering.

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Evergreens, Fruit Trees, Shade

Trees, Roses and Lining-out Stock.

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Names, location and types of plants grown by over 100 members representing 4,000 acres of the very finest nursery stock. Write to:

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SCOTCH PINE

Perfect Landscape Material

	Each
2 to 3 ft., B&B.....	\$ 4.50
3 to 4 ft., B&B.....	6.00
4 to 5 ft., B&B.....	8.00
5 to 6 ft., B&B.....	11.00
6 to 8 ft., B&B.....	15.00

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Evergreens
Shade Trees
Seedlings
Shrubs

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APPLES Domestic, French and Hopa

PEARS Bartlett, French, Calleryana, Ussuriensis

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PLUM SEEDLINGS Myrobalan and American

ANGERS ROOTED QUINCE CUTTINGS

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NOW is the best time to order for the Fall planting — or for making reservations for Spring shipments. Many superior varieties are listed for your choice. For growing on to larger containers or for field stock these quality-grown MN liners are a perfect choice. Strongly rooted liners with full top growth carefully pruned to encourage proper branching, planted in scientifically balanced growing soil. For Fall or Spring, better Profits are yours with MN pot-grown liners.

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2½" POT — 1¢

2½" *RP AND 3" POT — 2¢

MOUNTAIN STANDARD TIME

2½" POT — 1¢

2½" *RP AND 3" POT — 2¢

Juniperus chinensis Armstrongi (3) C

Armstrong Juniper

A showy semi-erect Conifer with a symmetrical closely-knit habit of growth. Very appealing with its attractive light green foliage having an excellent lacy texture.

RP .22

Juniperus horizontalis 'Bar Harbor' C

One of the finest prostrate Junipers. Its summer foliage turns a silvery plum shade.

RP

Juniperus chinensis 'Mint Julep' T.M.R. (3) C

A NEW, exciting vase-shaped form of Juniper with attractive arching branches that are covered with a lush green foliage. A wonderful grower with many uses in the landscape.

RP .25

Juniperus chinensis glauca hetzii (3) C

Hetz Blue Juniper

A very hardy Juniper with an appealing semi-erect habit of growth. A light frosty blue foliage covers the slightly spreading form and creates a delightful sight for the landscape.

RP .22

* Number following description refers to minimum temperature "Hardiness Guide." See pages 46 and 47 of your MN General Catalog.

Juniperus chinensis pfitzeriana aurea (4) C

Golden Tip Pfitzer

The showy gray-green foliage is splashed with a rich golden yellow glow. A wonderful addition to any planting is this colorful spreading Juniper.

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of shipping costs appears on one bill. At these low rates liners, laid down at your nursery — via our choice of carrier.

er to bring costs with your order!!

CENTRAL STANDARD TIME EASTERN STANDARD TIME
 2 1/4" POT — 1 1/2¢ 2 1/4" POT — 3¢
 2 1/2" *RP AND 3" POT — 3¢ 2 1/2" *RP AND 3" POT — 5¢

lis 'Bar
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ue color that
shade

RP .20



Juniperus chinensis pfitzeriana blue (3) C

A handsome spreading form of Juniper which we believe is a strain superior to any blue Pfitzer. The sturdy spreading branches are covered with a soft silvery-blue needle-like foliage.

RP .22

Juniperus sabina 'Arcadia' (3) C

A NEW addition of a superior strain that has proven one of the best Junipers throughout the country. A graceful spreading habit of growth is covered with a glowing green foliage having a fine, lacy texture.

RP .35

Juniperus horizontalis plumosa (3) C *Andorra Juniper*

A very hardy prostrate growing Juniper with a showy grayish-green foliage in summer which turns a rich plum color with cold weather.

RP .20

Juniperus squamata expansa 'Parsoni' (5) C

An appealing and much wanted ground-hugging habit of growth is this lovely prostrate grower. A charming gray-green foliage that delights the viewer and adds distinction wherever used.

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1000 PLANTS
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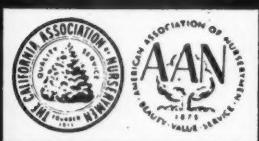
10%
5%

These Discounts apply if the following requirements are met:

1. All plants must be of one variety.
2. All plants must be of one container size.
3. All plants must be shipped at one time.

MONROVIA NURSERY Co.

P.O. BOX Q, AZUSA, CALIFORNIA



We can still furnish the following:

	Per	Per
Kolkwitzia amabilis	100.	1000.
2-yr., 6 to 9 ins.	\$10.00	\$10.00
2-yr., 9 to 12 ins.	15.00	125.00
2-yr., 12 to 18 ins.	20.00	175.00
Smoke Tree, Green		
6 to 9 ins.	10.00	85.00
9 to 12 ins.	15.00	125.00
Cotoneaster divaricata	10.00	85.00
6 to 9 ins.		
Washington Hawthorn	7.50	65.00
6 to 9 ins.		
Mountain Ash	7.50	65.00
6 to 12 ins.		
18 to 24 ins., T.	17.50	150.00
Mahonia aquifolium	6.50	50.00
Syringa vulgaris	7.50	65.00
2-yr., 6 to 12 ins.		
2-yr., 12 to 18 ins.	10.00	85.00
Spirea Charles Joly	35.00	300.00
Viburnum dentatum	7.50	65.00
2-yr., 6 to 12 ins.		
2-yr., 12 to 18 ins.	15.00	125.00
2-yr., 18 to 24 ins.	15.00	
Viburnum lantana	7.50	65.00
2-yr., 18 to 24 ins.	15.00	
Viburnum opulus	10.00	85.00
1-yr., 6 to 9 ins.		
2-yr., 12 to 18 ins.	15.00	125.00
2-yr., 18 to 24 ins.	15.00	
Viburnum sieboldii	10.00	85.00
1-yr., 6 to 12 ins.		
2-yr., 12 to 18 ins.	17.50	150.00
Viburnum tomentosum	10.00	85.00
1-yr., 6 to 12 ins.		
Red Barberry	7.50	65.00
2-yr., 9 to 12 ins.		
2-yr., 12 to 18 ins.	12.50	100.00

Please state when and how to ship.

NEWPORT NURSERY CO. Newport, Mich.

Beautifully Shaped Evergreens

WHITE PINE RED PINE
SCOTCH PINE NORWAY SPRUCE

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White-Flowering Dogwood

Single-stem specimen trees and choice multiple stems. Transplanted, heavy-matted root systems. 3 to 8 ft.

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Taxus, Pfitzers, Andorras

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• Packaging Machines

Monroe, Michigan

Connecticut Day On Weed Control Using Chemicals

By John F. Abrens

Over 100 persons attended the recently held nursery and turf weed day at the Windsor laboratory of the Connecticut agricultural experiment station, Storrs. Turf growers, nurserymen and garden center operators were invited to view experiments involving chemical weed control in turf and nursery plantings. Sponsored co-operatively by the Connecticut agricultural experiment station and the Connecticut extension service, University of Connecticut, the event was staged in an attempt to bring growers up to date on weed control research conducted in Connecticut.

After being welcomed by Dr. Gordon S. Taylor, assistant to the director of the Windsor station, the group viewed the turf plots and heard a talk on the background of the station's research in chemical weed control by Dr. Albert E. Diamond, head of the department of plant pathology and botany at the station. They were told that experiments with the use of chemicals in nursery plantings were first started in Connecticut in 1958.

View Experiments

The group then inspected several nursery experiments on the station grounds, conducted by Dr. G. F. Ahrens and other station personnel. In one experiment Simazine and other herbicides had been applied to beds at single and double dosages for four seasons, each application being followed by a transplanting of liners of yews, hemlock and euonymus into the plots. No injury to newly planted liners of yews was caused by applications at normal dosages of any chemical over the 4-year period, it was stated. Granular Simazine, atrazine and diuron controlled weeds for the longest periods.

Euonymus liners, however, were injured by Simazine and atrazine, but not by some of the other materials. Where oats were used as an indicator plant, it was shown that the carry-over of the herbicides in the soil from one year to the next does not appear to be a threat to nursery stock.

In other nursery experiments,

EVERGREEN SEEDLINGS and TRANSPLANTS For Fall and Spring Delivery

	Per 1000
Colorado Blue Spruce	\$90.00
4-yr. T., 9 to 18 ins.	72.00
4-yr. T., 5 to 9 ins.	24.00
2-yr., S., 4 to 8 ins.	
Norway Spruce	65.00
4-yr. T., 8 to 16 ins.	45.00
4-yr. T., 5 to 8 ins.	20.00
2-yr., S., 4 to 8 ins.	
White Spruce	60.00
4-yr. T., 10 to 18 ins.	32.00
4-yr. T., 5 to 9 ins.	
Black Hills Spruce	80.00
5-yr. T., 9 to 14 ins.	60.00
4-yr. T., 4 to 9 ins.	30.00
3-yr. S., 4 to 8 ins.	
Concolor Fir	98.00
4-yr. T., 5 to 10 ins.	70.00
4-yr. T., 3 to 5 ins.	
Blue Douglas Fir	65.00
5-yr. T., 10 to 16 ins.	50.00
4-yr. T., 7 to 12 ins.	22.00
2-yr., S., 4 to 8 ins.	
Gray Douglas Fir	75.00
4-yr. T., 12 to 20 ins.	55.00
3-yr. S., 7 to 12 ins.	28.00
White Pine	60.00
4-yr. T., 5 to 12 ins.	20.00
2-yr., S., 4 to 8 ins.	
Balsam and Fraser Fir	28.00
3-yr. S.,	
Scotch Pine (Spanish Sierra or French Auvergne)	70.00
5-yr. T., 14 to 18 ins.	50.00
3-yr. T., 7 to 14 ins.	20.00
2-yr., S., 8 to 12 ins.	
Scotch Pine (Austrian Hills)	49.00
4-yr. T., 12 to 16 ins.	20.00
2-yr., S., 8 to 12 ins.	
American Pine	68.00
4-yr. T., 12 to 16 ins.	48.00
3-yr. T., 6 to 10 ins.	20.00
2-yr., S., 4 to 6 ins.	

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Dr. Ahrens showed comparisons of wettable powder and granular formulations of Simazine and the effects on hemlock liners and bed-grown plants. Effects of extremely high dosages of herbicides on yews and hemlocks also were shown.

After the tour of nursery plots at the station, Jay Koths, extension horticulturist, led a discussion of the practical use of herbicides in nursery plantings. Several growers reported on their results in using Simazine in plantings.

A tour was later conducted of outlying experiments in two commercial nurseries. The first stop was at Mulnite Farms Nursery, Broad Brook, where Dr. Ahrens pointed out the results of four herbicide applications over a 3-year period in plantings of yews. Double dosages of Simazine had failed to injure the three varieties of taxus grown, and excellent control of weeds was obtained at even lower dosages.

The group also observed treatments on Christmas trees applied the previous December at the Mulnite nursery. Simazine, at four pounds of active ingredient per acre, controlled the weeds with no injury to the spruce plantings.

At the final stop of the day, the Burgess Nursery, Wapping, the group learned of the promising results being obtained with Simazine and atrazine for the control of quackgrass in nursery plantings. Thomas Burgess, owner of the nursery, estimated that the use of herbicides in his nursery had cut his labor requirement in half during the 1961 season.

Despite threatening weather and occasional rain during the day, the event was termed a complete success.



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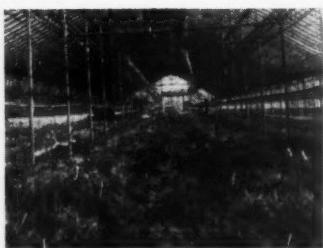


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Blue Hetz Juniper, 6 to 10 ins.	.05
Pfitzer Juniper, 6 to 10 ins.	.07
Euonymus patens, small or medium leaved, 8 to 10 ins.	.04
Euonymus coloratus, 6 to 10 ins.	.04
Pyracantha Kasan, 5 to 6 ins.	.05
Pyracantha Islandi, 5 to 6 ins.	.05

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MILWAUKEE, WIS.

Texans Get Details Of Rules in New Rose Grading Law

Regulations requiring inspection of field-grown rosebushes and setting grades and labeling requirements thereof when sold or offered for sale in the state of Texas were promulgated September 12 by the state commissioner of agriculture, John C. White, in accordance with the directions of senate bill 400 passed by the state legislature earlier this year. Copies of the new rules were distributed to Texas nurserymen October 3. These rules apply not only to rosebushes grown in Texas, but also to those grown out of state and shipped into Texas for sale within the state. The regulations apply to rosebushes only, not to cut flowers.

Any rosebush grower selling in Texas who plans to grade or claim a grade for his rosebushes should write to the Texas department of agriculture, Austin, for application for a certificate of authority which the rose grading act requires to denote those persons, firms or corporations claiming a grade on their rosebushes. Fees for this certificate, to be renewed each January 1, are set down in the regulations. Each certificate of authority will be given a number, and this number is to be stamped or printed on labels attached to each rosebush or rosebushes.

It is not necessary for a rose grower to obtain a certificate of authority and follow these rules unless he does claim or designate a grade for the rosebushes he offers for sale in Texas. For instance, a grower selling direct to a processor or packer does not have to hold a certificate of authority or grade his rosebushes, but the processor or packer does. The person, firm or corporation which labels the bush is responsible for the grade claimed.

The standards specified apply to all roses when sold either bare root in bundles, individually wrapped and packaged, or in cartons or containers.

All grades of roses must have a well-developed and well-proportioned root system sufficient to give normal growth when properly planted. It shall show no shriveling or blackening from drying or other damage. The cane or canes shall be adequately matured, shall be free from shriveling, and a live,

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BINGO PURE GOLD
PINK FRAGRANCE

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3 to 6 ins., Seedlings
Balsam Fir, \$15.00 per 1000
White Spruce, \$15.00 per 1000
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PIONEERS IN HOLLY

healthy condition shall be indicated by the cambium layer. In the event of freeze damage, a rosebush shall be considered viable if in the judgement of the inspector 70 per cent of cambium eight inches above the bud union and 100 per cent of the bud union remain in good growing condition.

All canes used in grading must branch within three inches of the bud union, and the caliper of the cane will be measured at four inches from the bud union.

There must be a label attached to each unit or each display bin sold at the consumer level denoting the grade. The word "Grade" shall be stated following each grade designation.

Four grades were designated: Jumbo, No. 1, No. 1½ and No. 2. Standards set for the four grades in the classifications of hybrid teas, climbers and grandiflora are as follows:

Jumbo—four canes, 3/8-inch caliper, or five canes, 5/16-inch caliper or better.

No. 1—three canes, 3/8-inch caliper, or four canes, 5/16-inch caliper or better.

No. 1½—three canes, 5/16-inch caliper or better, or two canes, 3/8-inch caliper or better.

No. 2—two canes, 1/4-inch caliper or better.

Standards were also set for floribunda and polyantha-baby roses.

Public hearings concerning the then-proposed regulations were held August 14, August 26 and September 5 at Tyler. The hearings were attended by nearly all of the approximately 200 licensed rose growers in the area. At the formal hearing, September 5, a number of rose growers gave their views on the proposed rules. These men were Ed Tedder, Carl Shamburger, Carroll Wilson, Clark Kidd, Raymond Payne, Charles Eikner, Homer Eikner, J. A. Bostick and Joe Burks. About 35 Tyler rose growers went by chartered bus to Austin August 29 to discuss further with the commissioner of agriculture the proposed rules that had been presented at the hearing August 26. Mrs. Neal Harville was a spokesman for the group.

COMPLETED this fall at the Warren County Nursery, McMinnville, Tenn., is a 120-foot addition to its original storage facilities. The new 2-story building gives space for both storage and packing.

HOBKIRK NURSERY, Williamsburg, Ill., has been established by William Hobkirk.

SHERMAN'S SELECT FLOWERING SHRUBS

	Per 10	Per 100	Per 1000		Per 10	Per 100	Per 1000
ALPINE CurrANT (<i>Ribes alpinum</i>)				LILAC , Purple			
12 to 15 ins.	\$4.50	\$40.00	\$350.00	18 to 24 ins.	\$3.50	\$30.00	\$375.00
15 to 18 ins.	5.50	50.00	450.00	2 to 3 ft.	4.50	40.00	350.00
18 to 24 ins.	6.50	60.00	550.00				
24 to 30 ins.	7.50	70.00	650.00				
ALMOND , Pink (<i>Prunus glandulosa</i>), own root				PHILADELPHUS AUREUS			
2 to 3 ft.	6.00	55.00	-----	(Golden Syringa)			
3 to 4 ft.	7.50	70.00	-----	18 to 24 ins.	11.00	100.00	-----
				24 to 30 ins.	13.50	125.00	-----
BARBERRY , THUNBERGI,							
Green-leaved				RUSSIAN OLIVE , Transplants			
15 to 18 ins.	3.00	25.00	225.00	2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	325.00	3 to 4 ft.	6.50	60.00	550.00
BLUE MIST (<i>Caryopteris</i>)				SPIRAEA FROEBELI , Dwarf Pink			
No. 1	3.50	30.00	275.00	24 to 30 ins.	4.50	40.00	350.00
				30 to 36 ins.	5.50	50.00	-----
CYDONIA (Japanese Quince)							
12 to 18 ins.	2.50	20.00	175.00	SPIRAEA THUNBERGI , Early White			
18 to 24 ins.	3.50	30.00	275.00	18 to 24 ins.	3.50	30.00	250.00
				2 to 3 ft.	4.50	40.00	300.00
FORSYTHIA SPECTABILIS							
3 to 4 ft.	6.00	55.00	500.00	SPIRAEA VANHOUTTEI			
4 to 5 ft.	7.00	65.00	-----	18 to 24 ins.	3.50	30.00	250.00
				2 to 3 ft.	4.00	35.00	300.00
HONEYSUCKLE , CLAVEY'S DWARF				3 to 4 ft.	6.00	50.00	450.00
30 to 36 ins.	6.00	55.00	500.00				
HONEYSUCKLE , MORROWI				VIBURNUM OPULUS STERILE			
3 to 4 ft.	5.00	45.00	400.00	(Snowball)			
4 to 5 ft.	6.50	60.00	550.00	18 to 24 ins.	5.00	45.00	-----
				2 to 3 ft.	6.00	55.00	500.00
HONEYSUCKLE , TATARIAN, Red							
(Wheeling)				WILLOW , French Pussy			
3 to 4 ft.	5.00	45.00	400.00	2 to 3 ft.	3.50	30.00	-----
				3 to 4 ft.	4.00	35.00	-----
HONEYSUCKLE , ZABELI, Red				4 to 5 ft.	5.50	50.00	-----
3 to 4 ft.	5.00	45.00	-----				
HYDRANGEA , P. G.				We also grow a complete line of hardy nursery stock.			
18 to 24 ins.	5.00	45.00	400.00				
2 to 3 ft.	6.00	55.00	500.00	Write for new wholesale trade list.			

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PLANT NOTES HERE AND THERE

By C. W. Wood

Double-Flowered Catchfly

It is gratifying to see that American gardeners are commencing to give the double-flowered German catchfly the recognition which its merits deserve. One wonders if the former neglect of the plant was not based on the rather harsh color (magenta, to some) of the type, *Lychnis viscaria*. Then there came upon the scene a form known as variety *splendens*, which had larger flowers, more vivid color and perhaps longer blooming. The latter form finally evolved into what is known as *Lychnis viscaria splendens flore-pleno*, double-flowered German catchfly, a plant with a gratifyingly long blooming season, during which a large number of big, fully double, brilliant rubry-crimson (according to the writers of catalog copy) flowers are produced. Gardeners who profess to dislike the plant because of its color can usually be won to the side of its admirers by seeing it displayed against a background of plants that bear gray, silver or white leaves.

Propagation is by division at almost any time of the year, and the plant grows readily in any ordinary garden soil in sun.

Geranium Incisum

I do not think an Iowa correspondent will be making a mistake by adding *Geranium incisum* to his list. In fact, of our native crane's-bills, it may be classed, with a reservation or two, with the best, in my estimation. One reservation is its slight tenderness to the cold of far north winters, especially if one's material is from its southern range. Since it grows in the Pacific coast areas from California to Alaska, one would naturally think that it would be fully hardy anywhere in the states, but in my trials years ago Oregon plants were not reliable, and material from British Columbia needed protection if planted in exposed situations, though it was perfectly hardy in spots where snow was sure to stay on it from early winter until late spring.

Plants of the species vary in stature and color of flower in its natural range. Generally speaking, how-

ever, plants in my trials could be depended upon to stay about a foot in height, rather than the two feet mentioned in some of the floras, and showed little deviation from a light purple, having little, if any, of the pink and rose shades reported by some.

It is a good garden plant, doing well in sun or light shade, and it stands considerable dry weather. I do not remember that I ever tried to grow it from cuttings, but other species with its growth habits are propagated easily from soft cuttings in July, and some with its general make-up are quite successful from root cuttings in summer.

Chaenorrhinum Origanifolium

I have a letter from an eastern correspondent that has me disturbed. I quote from it, in part, as follows: "Years ago you sent me seeds labeled *Linaria origanifolia*; later I had it from Europe as *L.*

organifolia crassifolia; then you sent me seeds called *Anarrhinum crassifolium*, which I thought were the same thing when they flowered; last year I ordered seeds from England which they called *Chaenorrhinum origanifolium*. I do not discount the value of the plant in the garden, but one of these names is enough to discourage a gardener and the multiplicity of names is sure to smother it to death. Can you tell me what to call it—a name that is likely to stick? And have you an idea, unless it is because of the confusion in its names, why it is not more often used in gardens?"

Regarding the names: My copy of "Hortus" indicates it should be *Chaenorrhinum origanifolium*. How long it will remain that way, I have no idea. If I were now growing plants commercially, I think I should call it *Linaria origanifolia*, until some government agency (I understand that the federal trade

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GRANT'S NURSERY
Caledonia, Miss.

commission is stepping on the toes of some dealers who have manufactured common names to suit their fancy) told me to desist. In all seriousness, it is my opinion that it is far more important to get the plant into gardeners' hands than it is to waste one's time trying to get a name that will satisfy all the systematists.

I suppose there are some gardeners who object to its flower color, variously described as lavender pink, pale purple and pale lavender purple, but, considering all its other virtues, that number surely could not be many. Among those virtues is its willingness to please by commencing to flower early and continuing late. Seeds planted in April should produce blooming plants in early June and continue, with a little care with the shears and attention from the hose if dry weather overtakes them, into autumn. It makes little bushes to 10 inches tall, each plant with many flowering stalks, commencing to bloom when only a couple of inches tall and continuing to flower until the stems have reached their ultimate height. If planted close together, they soon produce a pretty mat, making a splendid cover for bulb beds; they are also good for edging purposes and for groups at the front of the borders. And, of course, they are good rock garden plants. They are best in full sun, but also make a satisfactory showing in part shade.

Like many plants with prolonged flowering periods, they are likely to be short-lived, but they usually self-sow when allowed to mature seeds. The flowers, though rather small, are so freely produced that the plants are practically covered with color—pale lavender-purple flowers with white blotches on the lower petals. A shearing after flowering has ceased will produce a mat of foliage ready for the next performance. Propagation is easy from seeds and from cuttings.

Linaria Alpina

Seeds of Linaria alpina planted during the first two months of the year should make generous flowering-size plants during the active selling season in May and June and should continue during the rest of the outdoor gardening season until cut down by heavy freezing. It is one of the best of the easily grown plants for the rock garden or for forward positions in the perennial border, asking for no more than a light soil in sun or part shade. Furthermore, it is one of the best perennials that

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Fall, 1961 — Spring, 1962

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PEACH	Each	Each	APPLE	Each	Each
	Per 10	Per 100	1-in. cal. and up,	Per 10	Per 100
June Buds			5½ ft., br.	\$0.70	\$0.60
3 to 4 ft., br.	.35	.32½	½-in. cal. 5 to 6 ft.,		
30 to 36 ins., br.	.30	.27½	br.	.60	.50
24 to 30 ins., br.	.25	.22½	¾-in. cal., 4 to 5 ft.,		
18 to 24 ins., br.	.20	.17½	br.	.50	.40
12 to 18 ins.	.15	.12½	½-in. cal., 3 to 4 ft.,		

Marcus	Washington	Yellow Transparent	Dark Red Jonathan
Cardinal	Redglobe	Lodi	Yellow Delicious
Sunhaven	Richhaven	Anoka	Dark Red Delicious
Coronet	Loring	Grimes Golden	Dark Red Stayman
Redhaven	Belle of Georgia		Red Rome Beauty
Ranger	Redskin		
Keystone	Elberta		
Triogram	Shippers Late Red		

PEACH	Dormant Budded	5-N-1 APPLE		
1½-in. cal.,		The City Man's Orchard		
6 to 7 ft., well-br.	.70	Five different varieties budded		
1-in. cal., 5½ ft. and	.65	on one tree—Yellow Delicious, Red		
up, well-br.	.55	Delicious, Stayman Winesap, Yellow		
½-in. cal., 4½ ft. and	.55	Transparent and Rome Beauty. Nice,		
up, well-br.	.45	well-branched trees.		
¾-in. cal., 4 to 5 ft.,	.45	¾-in. cal. and up	1.40	1.25
well-br.	.40	½-in. cal.	1.25	1.10
¾-in. cal., 3 to 4 ft.,	.35	½-in. cal.	1.10	1.00
well-br.	.32½			
¾-in. cal., 2 to 3 ft.,	.25			
br.	.22½			

Redhaven	Elberta	MALUS
Richhaven	Redskin	(Flowering Crab Apple)
Sunhaven	Loring	Almey, Dolgo, Eleyi, Floribunda,
Halehaven	Sullivan	Hopa, Red Silver, Red-vein
Rio Oso Gem	Elberta	
	Golden Jubilee	

PEAR	5 to 6 ft., 2-yr., br.	5 to 6 ft., 2-yr., br.
½-in. cal.	.80	.70
¾-in. cal.	.70	.60
½-in. cal.	.60	.50
¾-in. cal.	.50	.40
Ayer	Carrick	Morgan
Bartlett	Kieffer	New Orient

PRUNUS NEWPORT	PLUM, PRUNE and NECTARINE		
(Purple-leaved Plum)	½-in. cal., 4½ to		
PRUNUS PERSICA	6 ft., br.	.70	.60
(Double Red-flowering Peach)	¾-in. cal., 4 to 5		
½-in. cal., 5 to 6 ft.,	ft., br.	.60	.50
br.	.60	.50	
¾-in. cal., 4 to 5 ft.,	¾-in. cal., 3 to 4		
br.	ft., br.	.45	.40
¾-in. cal., 3 to 4 ft.,	¾-in. cal., 2 to 3		
br.	ft., br.	.35	.30
¾-in. cal., 2 to 3 ft.,	18 to 24 ins.		
br.	June buds	.25	.22½
18 to 24 ins.,	12 to 18 ins.		
June buds	June buds	.20	.17½
12 to 18 ins.,			
June buds		Bruce Plum	Garden State Nectarine

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LINERS

FROM OPEN BEDS

All our cuttings are rooted in soil in outside beds under mist—then hardened off and thoroughly established in the soil where they make a mature, hard root system and often some top growth. Many of these rooted cuttings will have to go into 3-in. or larger pots. Better not plan on putting any except the smallest in 2½-in. pots because they just won't fit. Of course, some of the Ilex crenata varieties and some of the others can go in pots that small. Some of our friends put the larger rooted cuttings right out in the field and usually have good luck with them, if planted at the right time; that seems a little radical to us and we don't recommend it. However, any plant we list as a bed-grown liner is ready for the field.

Mo., Yr.—date rooted BG—bed-grown
RC—rooted cutting C—cuttings
FG—field-grown S—seedlings

Berberis Crimson Pygmy—RC, July 61, 3 to 5 ins., many already branched, 12c; light, BG, liners, 18 mos. old, branched to fairly bushy, 5 to 8 ins., 18c; heavy, FG, liners, 6 to 9 ins., bushy, 25c; heavy, FG, 3-yr., 8 to 10 ins., bushy, 40c.

Berberis Julianae—The hardiest evergreen barberry—RC, Aug. 61, 5 to 7 ins., 9c.

Berberis Julianae nana—Compact growth, darker green leaf, may be even harder. RC, Aug. 61, 5 to 7 ins., 10c; C, rooted Aug. 60, ready for field, 9 to 12 ins., but not all branched, 20c.

Berberis mentorensis—RC, Aug. 61, 5 to 7 ins., 7c.

Buxus sempervirens (BOXWOOD)—An excellent bushy strain—C, rooted Sept. 1960, and kept cut back to 6 to 7 inches, beginning to bush out well, 10c. The best we have had in several years.

Chamaecyparis obtusa nana—(dwarf Hinoki cypress)—2-yr., BG, liners, 4 to 6 ins., 40c.

FLOWERING QUINCE

Chaenomeles (Cydonia)—On own root from softwood cuttings. No suckering from these plants. In our experience, Flowering Quince on its own roots grows and flowers much better than it does if grafted on anything. We still have more than 50 different varieties in our trial grounds.

Nivalis—Pure white, the best of the white-flowering quinces, vigorous, upright—RC, June 61, up to 18 ins., but should be potted on bedded, 10c; BG, liners, 8 to 15 ins., 18c; 15 to 24 ins., 24c; field, A. A. N. grading, 12 to 18 ins., 35c; 18 to 24 ins., 45c; 2 to 3 feet, 60c.

Texas Scarlet—Red, spreading grower, wider than high. An excellent foundation plant, never gets too tall. Showier than an azalea. The best for canning because of the profuse red flowers on a compact, low plant. It is the prettiest quince and maybe the prettiest plant we ever saw in a can. RC, June 61, up to 8 ins., 10c; BG, liners, 8 to 15 ins., 20c; field, A. A. N. grading, 12 to 18 ins., 35c; 18 to 24 ins., 50c.

Jet Trail (NEW)—Pure white sport of Texas Scarlet with same growth habit and all the good qualities of its parent. The only low-growing white-flowering quince I know of. Be the first to have it. RC, June 61, 20c; BG, liners, 8 to 15 ins., 35c.

Simon—Nearly sold out for this year.
Ruby Glow—The deepest red (except Simon) of the more than 70 varieties I have had, vigorous, upright—RC, June 61, up to 8 ins., 15c; BG, liners, 8 to 15 ins., 25c; 15 to 24 ins., 35c.

Toyonishiki—From Japan through the Morton Arboretum. Pure white, pure pink and pink and white flowers at random on the same branch. Some plants throw single branches of pure red flowers. A most remarkable effect. A clean, upright, vigorous grower. RC, June 61, 20c; BG, liners, 10 to 20 ins., 35c.

Phyllis Moore—Fully double, red flowers—solid red.

Crimson Beauty—Extremely upright, deep red, very vigorous—FG, liners, 12 to 24 ins., 40c.
Cameo—Fully double flowers. An excellent selection. Limited quantity. RC, June 61, up to 8 ins., 25c; BG, liners, 8 to 15 ins., 40c.

Cherry laurel—See *Prunus*.

can be treated as an annual and should be made much more of by gardeners. It no doubt would be, too, if growers would push it.

It should be made clear, though, that the plant is not reliably hardy in northern Michigan unless it is assured a good snow blanket; it usually perpetuated itself in my trials, however, by self-sowing; so one need seldom be without it once it has gained a foothold in a con-



DAWN REDWOOD

Euonymus alatus compactus—RC, June 61, strong tips, about 6 ins., 8c; C, rooted July 60, BG, ready for field, most are lightly branched, 8 to 12 ins., 15c; field-grown, well-branched, 8 to 12 ins., 25c; 12 to 15 ins., 35c.

Ginkgo biloba—1 yr., S, 8 to 12 ins., 10c; 2 yr., S, 12 to 18 ins., 18c; 18 to 24 ins., 25c; 3 yr., S, 2 to 3 ft., 35c.

HOLLY

Ilex cornuta femina—RC, Aug. 61, strong tips, 4½ to 6 ins., 6 to 12 leaves, heavily rooted, 8c; C, rooted Aug. 60, kept cut back to 6 to 9 ins., nearly all beginning to branch well, 15c.

Ilex cornuta MALE—RC, Aug. 61, 4 to 6 ins., 5 to 10 leaves, heavily rooted, 12c.

Ilex cornuta burfordi—RC, Aug. 61, strong tips, 5 to 6 ins., 6 to 12 leaves, heavily rooted, 8c; C, rooted Aug. 60, kept cut back to 6 to 9 ins., nearly all beginning to branch well, 15c.

Ilex cornuta rotunda—Extremely compact, relatively dwarf, BG, liners, 18 mos. old, 5 to 8 ins., 25c.

Ilex cornuta x Pernyi—A hybrid between *I. cornuta* and *I. Pernyi*—Very attractive, new and different—RC, Aug. 61, 3½ to 4½ ins., 6 to 12 leaves, 12c; 2½ to 3 ins., 5 to 10 leaves, 8c.

Ilex crenata convexa (bulbata)—RC, Aug. 61, long tips, 5 to 6 ins., 7c.

Ilex crenata hetzii—RC, Aug. 61, long tips, about 6 ins., 7c; C, rooted Aug. 60, kept cut back to 7 to 8 ins., beginning to branch well, 10c.

Ilex crenata Maxwell—A Bennett hybrid, looks like *convexa* but a much better grower. A money-maker. RC, Aug. 61, 5 to 6 ins., 8c; C, rooted Aug. 60, kept cut back to 7 to 8 ins., beginning to branch well, 12c.

Ilex crenata compacta—A Bennett hybrid, a very good and compact grower, very dark green. Makes a perfect plant with little or no trimming. The best *I. crenata* I have ever seen. RC, Aug. 61, 4 to 6 ins., 8c.

Ilex crenata rotundifolia—RC, Aug. 61, 4½ to 6 ins., 3c.

genial spot in a friendly garden. As it is so free in its self-sowing, one would naturally expect it to be a nuisance, but it is too lovely ever to gain that name.

One role that I have seen this plant play with distinction may be worth a little space here. As every experienced gardener knows, the climate of this country makes the culture of many alpines a risky task. Here is where *Linaria alpina* can be

Ilex Foster's Hybrid No. 2—Narrow, spiny leaves, red berries, fruits heavily, rapid grower, quite hardy. C, rooted Sept. 60, kept cut back to 7 to 9 ins., beginning to branch beautifully, 15c.

Ilex opaca (American Holly)—Varieties selected for good compact growth, good berries, guaranteed female and guaranteed male from cuttings. BG, liners 4 to 6 ins., 17½c; BG, liners, many lightly branched, 18 to 30 ins., 50c. *Ilex opaca* shipped only on March 1, 1962, because that is the best time to move American Holly.

JUNIPERS

Juniperus—All the following are from short, greenhouse-type cuttings. They were rooted under mist in beds of soil in the spring of 1961. They have been cut back several times to make nice, compact, heavy, rooted cuttings about 5 to 6 ins. high, depending on variety, beginning to bush out. None are leggy. They are still small enough to pot. If you plan to sell potted liners, many of these will be suitable just as soon as they establish their roots in pots.

Juniperus Andorra—RC, 10c; \$95.00 per 1000.

Juniperus Andorra compacta—The genuine "Youngstown Variety." Really compact. The hottest thing on the market today. RC, 12c; \$115.00 per 1000.

Juniperus pfitzeriana—RC, 10c; \$95.00 per 1000.

Juniperus pfitzeriana Compact—Compact, fine texture, excellent form; RC, 11c; \$105.00 per 1000.

Juniperus pfitzeriana Blue—The best, bright blue strain, not like hetzi. Slightly flatter than regular Pfitzer, and a slightly faster grower. RC, 15c; \$140.00 per 1000.

Juniperus pfitzeriana Nick's Compact—RC, 10c; \$95.00 per 1000.

Juniperus pfitzeriana Ozark Compact—The best compact Pfitzer we have seen. Finer in texture than Nick's Compact, and much better winter color. RC, 12c; \$115.00 per 1000.

Juniperus procumbens nana—RC, 12c.

Juniperus procumbens—RC, 15c.

Juniperus chinensis columnaris—RC, 15c; \$140.00 per 1000.

Juniperus keteleeri—RC, 15c; \$140.00 per 1000.

Juniperus squamata parsonii—RC, 15c.

Mahonia bealei—1 yr., S, from well-spaced outdoor beds, just right to pot, 7c; \$60.00 per 1000.

Mahonia pinnata—Somewhat like aquifolium, but much better. Vigorous, compact growth in full sun, never leggy. Foliage bright bluish-green, new growth red. Hardy to Boston at least. BG, liners, 8 to 12 ins., 30c; Field-grown liners, heavy, but not well-branched. Will branch themselves first year they are in field, 12 to 24 ins., 50c.

Mahonia aquifolium "Un-named"—NEW

—So new we haven't found a name good enough. The best Mahonia I have ever seen. Better than *M. pinnata*, if that is possible. Extremely compact, yet an excellent grower. Grows from cuttings, of course. BG, liners, 8 to 12 ins., 50c; Field-grown liners, 12 to 24 ins., 80c.

Mahoberberis aquifoloides and **Mahoberberis aquisargentea**—NEW—Remarkable hybrids between *Mahonia* and *Berberis*, from Sweden. BG, liners, 8 to 12 ins., 50c.

DAWN REDWOOD

Metasequoia glyptostroboides—Thought extinct for 20,000,000 years, discovered in China in 1945. Royal Horticultural Society Dictionary of Gardening says "This tree is undoubtedly one of the most notable acquisitions to our gardens of recent years." I agree. Large tree, fresh green fernlike foliage, very rapid grower. Many trees only 13 years old are 12 inches in diameter. Deciduous, autumn foliage pale pink. Hardy at Chicago and Boston, 2 to 3 ft. in Plantainer cans, \$2.00, pick up only. Packed for shipment in individual cartons, \$2.40.

Prunus Hally Jolivette—NEW—Charming new flowering cherry. Recently released by the Arnold Arboretum. Long blooming period, with great quantities of dainty, pale pink, semidouble flowers. One of the finest new introductions. BG, liners, own root, 9 to 12 ins. and up, 30c; field-grown, own root, 18 to 24 ins., well branched, \$1.50.

used to good advantage. The alpine primulas, some of the saxifrages, some gentians and others, which I have to put on a northern slope or wall or give the protection of a large rock against the sun, are further benefited by an interplanting of this linaria, its not-too-dense foliage providing just the right degree of shade to save its delicate neighbors.

Next, linnarias have the reputation of being too rampantous to be

Prunus caroliniana (Cherry Laurel)—1 yr., S. cut back to 8 to 12 ins., beginning to branch, 7c.

Prunus laurocerasus schipkaensis (Cherry Laurel)—Quickly makes a large mound-shaped evergreen, RC, July 61, 5 to 8 ins., many full leaves, heavy root system, 10c; C, rooted July 60, kept cut back to 8 to 12 ins., BG, liners, beginning to branch, 20c.

Prunus laurocerasus zabeliana (Cherry Laurel)—Usually considered the hardest. Spreading, like a Pitzer Juniper, RC, July 61, 4½ to 7 ins., 12c.

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest, with very large leaves, very dark green. Is even harder than zabeliana here. RC, July 61, 4½ to 7 ins., 20c.

VIBURNUMS

Viburnums—All these Viburnums are rooted from soft tips in spring or early summer. They grow some during the summer and fall which makes the rooted cuttings from 4 to 5 ins. up to 12 or more inches tall depending on variety. It is hardly fair to call them rooted cuttings since some of them are more like light, young, bed-grown liners. However, they have not been transplanted, are not branched and most of them are still small enough to pot.

Viburnum burkwoodi—RC, June 61, some beginning to branch, 10c.

Viburnum chenaultii—More compact and shapely than burkwoodi. RC, June 61, 15c.

Viburnum juddii—Better than carlesii. Flowers fragrant and really pink. A more compact plant with more attractive leaves, not subject to leaf spot. RC, June 61, 15c; field-grown, liners, 8 to 12 ins., branched, 30c.

Viburnum macrocephalum sterile—

(CHINESE SNOWBALL)

This is the one we love. Dazzling white snowballs, often 8 to 9 ins. in diameter, as big as a man's head. The most spectacular flowering shrub I ever saw. A clean, vigorous grower. On own roots, much better growth than if grafted. 2-year liners, C, rooted June 60, kept cut back to 12 to 15 ins., fairly well branched, 45c; C, rooted June 60, in polyethylene plant bands, same amount of soil in 3-in. pots, 65c.

Viburnum opulus sterile (Common Snowball)—RC, June 61, 10c.

Viburnum rhytidophyllum (Leather-Leaved Viburnum)—RC, July 61, 12c.

Viburnum rhytidophylloides—A hybrid between *V. rhytidophyllum* and *V. lantana*. Similar to *rhytidophyllum*, but is harder. RC, July 61, 15c.

Viburnum tomentosum plicatum (Japanese Snowball)—RC, June 61, 12c.

Viburnum tomentosum plicatum grandiflorum—Snowballs considerably larger and whiter than regular Japanese Snowball. RC, June 61, 20c.

NEW VIBURNUMS

Viburnum rhytidocarpum

Viburnum Willmottiae—Both are *V. rhytidophyllum* hybrids.

Viburnum Bodnantense—A hybrid between *V. fragrans* and *V. grandiflorum*. Pink flowers.

Viburnum tomentosum "Lanarth Variety"— Said to be even better than mariesii. Any of these four in very limited quantity. RC, July 61, 35c.

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trusted near small plants; actually, *L. alpina* is sufficiently restrained in its growth to be included in all except the choicest (perhaps frailest is a better word) company. In these associations, one must watch to get harmonious blendings of colors. True *L. alpina* is a 3-inch plant with violet and orange snapdragons, but the plant has apparently been promiscuous since coming into decadent civilization, and

there are now what seedsmen call variety hybrids, growing to six inches in height, with a wide range of flower colors.

Dryas

Of the many forms which the rose family has assumed, dryas is not the least valuable. Although not entirely foolproof, the plants should give little trouble anywhere except in the hottest parts of the country, and material from the southernmost range might do well even in warm sections if given shade and water during dry weather. Here in the north they seem to do well in almost any spot that is not desert dry, perhaps preferring what gardeners call dappled shade.

They are among the best of creepers for rock garden planting, depending not entirely upon their white or yellow flowers, as the case may be, for their charms, because their shining, evergreen leaves are of year-round value and their fluffy seed heads, on the order of an alpine anemone, are especially ornamental.

The two species most readily available, *Dryas drummondii* and *D. octopetala*, are also about the best; at least they are good enough to supply all ordinary needs. The first of these has bright yellow flowers, while the flowers of the other are creamy white at first and later become almost pure white. These two and their hybrid, *D. suendermanni*, are all of quite easy culture, but *D. integrifolia*, from the high latitudes of arctic America, proved, in my trials, to need too much attention to keep it going when the other three kinds mentioned before are available.

All the kinds may be grown from seeds, which are slow to germinate and are best sown outdoors in autumn; from division of the stems, which often root as they creep over the ground, and from cuttings. The latter may be taken from fresh, new growths in late spring, I am told, but I never was very successful with them; however, heel cuttings, about three inches long, with the bottom of the cuttings of old wood, may be inserted in pots of light, sandy soil and kept in a close frame for a month to six weeks, when they should root at least 50 per cent.

Epilobium Latifolium

A New England reader says that he bought seeds marked *Epilobium latifolium* that produced plants 15 inches tall and his brother told him, when he saw the plants last

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	Per	Per
	10	100
6 to 8 ft., 3/4-in. cal., up...	\$7.50	\$70.00
5 to 6 ft., 11/16-in. cal...	6.50	60.00
4 to 5 ft., 9/16-in. cal...	5.50	50.00
3 to 4 ft., 7/16-in. cal...	4.50	40.00
Dixie Red, Dixie Gem, Belle of Georgia, Cardinal, Early Elberta, Elberta, Early Wheeler, Golden Jubilee, Halehaven, J. H. Hale, Red Flowering, Redhaven, Red Indian.	3.50	30.00

PLUM TREES

2-Yr.

	Per 10	Per 100
6 to 8 ft., 3/4-in. cal....	\$8.00	\$75.00
5 to 6 ft., 11/16-in. cal...	6.50	60.00
4 to 5 ft., 9/16-in. cal...	5.50	50.00
3 to 4 ft., 7/16-in. cal...	4.50	40.00
Abundance, Golden, Methley. (We have a limited supply of Bruce and all red plums through 5 to 6-ft. sizes at same prices as above.)		

PEAR TREES

Dormant Buds

	Per 10	Per 100
5 to 6 ft., 11/16-in. cal....	\$7.50	\$70.00
4 to 5 ft., 9/16-in. cal...	6.50	60.00
3 to 4 ft., 7/16-in. cal...	5.50	50.00

Bartlett, Douglas, Garber, Kieffer.

APPLE TREES

Dormant Buds and 2-Yr.

	Per	Per
	10	100
5 to 6 ft., 11/16-in. cal...	\$6.50	\$60.00
4 to 5 ft., 9/16-in. cal...	5.50	50.00
3 to 4 ft., 7/16-in. cal...	4.50	40.00
Jonathan, Red Delicious, Summer Champion, Yellow Delicious.		

If your order totals 100 trees or more, use prices shown at the 100 rate. If under 100 trees, use the 10 rate. Free packing when cash is received with order. 5% discount when picked up at nursery by your truck.

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summer, that they were not correctly labeled. It appears, from the brother's verdict, that true latifolium, as it is grown in Colorado from locally collected seeds, does not grow more than six inches tall.

All I can do is tell the inquirer a bit of experience. Epilobium latifolium apparently varies much in stature as it occurs in nature. Plants coming to me from the Lake Superior region grew as high as 18 inches, while alpine forms from the Rocky mountains are said to be no more than one-third that height. To my present knowledge, I have never had the alpine forms, but they are said to be good rock garden plants, requiring a wet moraine or a position where they will have constant moisture during the growing season. As I know it from trials of Canadian material, it has gray, hoary leaves, quite beautiful in themselves, and large, purplish flowers, as much as two inches across in well-grown specimens, a combination that makes a really good garden plant, where its moisture needs can be supplied.

Alchemilla Alpina

When I was preparing to write this note in response to a request from a western reader, I went to the file on lady's-mantle and found the following without credit, though I suspect it is from Peter van Melle, who wrote so charmingly on plants some years ago, and I do remember this was one of his favorite hardy perennials.

Whoever it may have been, he wrote as follows: "As I have it, A. alpina makes small mounds of glorified strawberry leaves, averaging about two and a half inches across, palmately cleft into (mostly) seven fingers. This foliage is dark green and glossy on the upper side, and each lobe is stitched round with a fine silver thread. But the fine part of it all is the reverse side of the leaf—a creation of soft silk and silver sheen that is a feast, both to the touch and the eye."

The leafage is, of course, the plant's fortune, and the 6-inch flowering stems, bearing inconspicuous flowers, may, with reason, be removed before flowering if seeds are not wanted. It is easy to grow in any light soil, doing best in my trials in a rather infertile one, and it is fully hardy.

STARTING Gibson Florists, Nursery & Greenhouse, at Fort Wayne, Ind., are Jerry D. Gibson and his wife, Dorothy.

Pink Dogwood

(Cornus florida rubra)

	Each	Per 100
1-yr., 12 to 18 ins.	\$0.50	\$0.45
1-yr., 18 to 24 ins.	.60	.55
1-yr., 24 to 30 ins.	.85	.75
1-yr., 30 to 36 ins.	1.00	.90
2-yr., 3 to 4 ft.	1.50	1.40
2-yr., 4 to 5 ft.	2.50	2.25
2-yr., 5 to 6 ft.	3.00	2.75

White-Flowering Dogwood

(Cornus florida) 2-yr.

4 to 5 ft., br.	1.25	1.00
3 to 4 ft., br.	.90	.60
2 to 3 ft., br.	.50	.40
18 to 24 ins., br.	.25	.20
12 to 18 ins., br.	.10	.08

Flowering Crab Apple

Eleyi, Hopa and Almey

1-yr., 2 to 3 ft., whips	.30	.25
1-yr., 3 to 4 ft., whips	.35	.30
1-yr., 4 to 5 ft., whips	.45	.40
2-yr., 3 to 4 ft., br.	.45	.40
2-yr., 4 to 5 ft., br.	.60	.50
2-yr., 5 to 6 ft., br.	.75	.65

(For Almey, add 15¢ a tree.)

Flowering Peach

Red, White, Pink and Peppermint

18 to 24 ins.	.25	.20
2 to 3 ft.	.30	.25
3 to 4 ft.	.35	.30
7/16 to 9/16-in. cal.	.40	.35
9/16 to 11/16-in. cal.	.45	.40

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American Nurseryman Chicago 4.

Louisiana Officers Elected at Alexandria Meeting

In spite of the effects of hurricane Carla, which prevented many Texas nurserymen from attending, 195 nurserymen and 62 commercial exhibitors participated in and made a success of the seventh annual convention of the Louisiana Association of Nurserymen, held at the Hotel Bentley, Alexandria, La., September 14 to 16. A featured talk on "Salesmanship" and the presentation of a plaque to Wiley A. Roach, Roach Nursery, West Monroe, "in recognition of his zeal for beautifying Louisiana and dedication to the promotion of the nursery industry," were highlights of the event. The trade show was also dedicated to Mr. Roach.

Chosen president of the L. A. N. for the coming year was Marshall Mugnier, Lafayette Nursery, Lafayette. Elected to serve with him were Clyde Gorum, Lambert Landscape Co., Shreveport, first vice-president; Alvin Guidry, Guidry's Nursery, St. Martinville, second vice-president, and Kent Langlinais, Kent's Nursery, Youngsville, treasurer.

New directors named were Ward Guillot, Guillot Camellia Gardens, New Orleans; Fred Yates, Yates Nursery, Folsom; Milton Vallery, Williams Nursery, Forest Hill; Wiley E. Roach, and N. J. Griffith, Griffith's Nursery, Shreveport, who was appointed by retiring President W. T. Lambright, Lambright Nursery, Shreveport, to serve the unexpired term of Gordon Dugal, Jr., Dugal's Nursery, Lafayette, who has entered the armed services.

At a business meeting of the Louisiana chapter of the American Association of Nurserymen, Earl Vallery, Grandview Nursery, Youngsville, was re-elected president and Marshall Mugnier was named delegate, with Rene Casadaban, of the Casadaban Nurseries, Abita Springs, as alternate.

Convention speakers included Dave Pearce, Louisiana commissioner of agriculture; Clark Kidd, Arp Nursery, Tyler, Tex., A. A. N. director, and Frank Sellars, sales manager, Dow Chemical Co., at New Orleans, whose featured topic, "Salesmanship," emphasized qualities which he said distinguished salesmanship from selling.

Recommendations for changes in the state's horticultural laws and applicability of the federal unem-

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2 to 3 ft.	1.75	5 to 6 ft.	2.50
3 to 4 ft.	2.00		

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FALL LIST

See the September 15 issue of American Nurseryman for our fall stock listing.

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ployment tax act to the nursery industry were discussed at the business session. Committee reports also were heard.

At the president's banquet, which concluded the convention activities, besides the presentation to Mr. Roach, previously mentioned, awards were presented for top exhibits in the trade show.

CHAS. CHESTNUT

[Continued from page 16]

winter and the net dragged up a wooden bowl made out of elm wood that had been in the water about 200 years. He had that in the collection too. That part was authentic anyway."

"Well anyway," Emil continued, his exhibit attracted a lot of attention and many people wanted to buy the different stuff from Helms. He had his things mounted in picture frames and covered with glass."

"Didnt he sell nothing at the fair at all?", I said.

"Oh yes, he sold plenty." Emil replied. A customer would see something he wanted to buy, but Helms wouldnt sell any of his exhibit even if the customer was crazy to get it. Instead he would tell his customers he had an idea where he could pick up an exact duplicate among the Norwegian farmers out home. He said he was going home that week-end and that he would look around. Then he would go home and work feverishly all week-end and bring back what they wanted."

"He really cleaned up that summer, making Indian relics as fast as he could. Nobody ever suspected that Helms was making the stuff himself."

"Finally a thing happened that tripped him up," Emil said.

"What in the world made him give up when he had it going so good?", I said.

"It was on account of the green arrowhead," Emil said.

"Never heard of one like that," I said. "Did he make it or find it?"

"It was just a whimsical notion, and he should have known better," Emil said. When he was home one week-end, he was walking up the railroad track from the depot in Lake Park. As the track run near his place, he found some green glass from a busted switch lamp, you know they got red glass on one side and green on the other. This is just the thing to make the boys sit up and take notice, Helms thought. So he went home and

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made up the prettiest arrowhead you ever saw. It was about three inches long, I remember."

"He took it back to Chicago to the fair and had it on exhibition. It created a great sensation. In fact some of the Chicago newspapers wrote it up. His business increased almost double. Several people tried to buy it, but Helms said it was the only one he ever seen and it was not for sale. That part was a fact."

"All went well until one day a professor from the museum dropped in to see the arrow."

"Where did you find this arrow?", he said to Helms.

"Found it on my farm," Helms said. And he made up a long-winded tale of how the Indians used to have big fires on a certain spot on a sandy hill on the farm. "The heat must of turned the sand into glass," Helms said. He wasn't too sure himself just how it come to be green that way.

"In a few days the professor came back. He had a piece of green glass just like Helms' arrow. "This is a piece of glass from a broken switch lamp, and it looks just like your arrow," he said. "There wasn't any switch lamps nor any railroad for that matter when arrows were made. This arrowhead is a fraud, pure and simple."

"What did Helms do then?", I put in, just to show my interest.

"Well, there wasn't no law against making arrows, but Helms figured he better get out while the going was good; so he took his traps and left for home and never came back to the fair."

"Is that all there is to the story, Emil?", I said "Or is there any more?", as I was anxious to get out and feed the horse.

"No, this is where my part of the story comes in," Emil replied.

"In later years when he left the farm and settled here in Riverbend, Helms used to work for me here at the nursery. He was a teamster and had a team of fine Belgian mares. One day he brought me over a big wooden box of arrows and other Indian relics of all kinds. "I'm tired of having it around," he said. "Maybe you can make some use of this stuff."

"There was little bird arrows and on up to arrows for killing bear and elk. There was elk in these parts in them days when the Indians were here, Chas. In the box was mixing bowls, hammers, axes and a lot of things that Helms himself didn't know what they was

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used for. That box stood there behind the door for half a dozen years, I guess. Once in a while I'd give a souvenir to a customer, but I didn't pay much attention to it," Emil said.

Gradually some of the members heard about my arrows and things. One of the first was old Frank, from Otter Creek. Frank was crazy for arrows, so I let Frank pick over the box and I traded him 50 arrows for a wagonload of gooseberries which I was short of at the time. In those days there was quite a demand for gooseberries. Frank didn't hardly make a dent in the stuff. Frank has still got his arrows, as I seen them when I was up there last summer, the time the privet cuttings was ripe. I never told Frank the history of the arrows and he probably thinks they are 100 per cent made by Indians."

"The best deal I made was with John Bushbottom. John was a great one for something spectacular. In the lot of stuff was a fluted ax that Helms made. It must have weighed 20 lbs., too big for any lazy Indian to lift, but John was dead set on having it."

"One year I was short of box elder; in fact, there wasn't any in the trade except some old John had hoarded. I told him if he would sell me some box elder he could have the ax. By the way, that old crippled box elder there by the corn crib is a part of the lot I got from John that spring."

"If you ever noticed in John's office, he still uses that ax for a door stop. Over the years he has worked up a long-winded story of how he has been offered \$100 for it and how it was made by some tribe of giant Indians from out west someplace. After telling the story so many times, John has come to believe it himself."

"Mr. Morse at the bank was another one. He still has a frame

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30 to 36 ins.	1.25	18 to 24 ins.
		1.25
Arborvitae, Berckmanni Golden		
15 to 18 ins.	1.00	Juniper, Nick's Compact
18 to 24 ins.	1.25	12 to 15 ins.
		15 to 18 ins.
Juniper, Andorra		1.25
15 to 18 ins.	1.00	Juniper, Pfitzer
18 to 24 ins.	1.25	12 to 15 ins.
		15 to 18 ins.
Juniper, Fastigiata		1.25
24 to 30 ins.	1.00	Juniper, Von Ehren
30 to 36 ins.	1.25	15 to 18 ins.
		18 to 24 ins.
Juniper, Greek		1.25
15 to 18 ins.	1.00	1.00
18 to 24 ins.	1.25	1.25
10,000 Ilex rotundifolia, I. hetzi, I. burfordii, Ligustrum lucidum and Pfitzer Juniper.	In 1-gal. cans.....	60c

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with the arrows arranged in a big heart shape on the wall of that little room where he sits at the bank. I seen it when I was in there the other day to renew my note."

"I have lost track of all the trades and deals I made years ago, but there must have been 25 or 30 nurserymen who got that stuff out of Helms' box, all over the country. In the days when I was a big honeysuckle king I used to have a lot of nurserymen coming here to make trades with me. There ain't nothing left now but that Indian pipe, one of the best Helms ever made, hanging there behind the door," he said pointing to a dust-covered pipe hanging on the office wall.

"Do you think its time now to let the cat out of the bag, Emil?", I said. Can I write it up for the paper? Some of the members might get sore."

"It dont make much difference now after so many years; most of the old timers are long since gone."

Emil relit his corncob pipe.

"Come on, Chas," he said, "Today we got to go down to Mrs. Morse's. She wants us to move a lot of stuff."

STARTING the Red Barn Shop & Gardens, Burlington, Mass., a nursery with landscape and garden shop phases, is James H. Tucker. Ground covers and ericaceous materials are being grown.

GRAND opening of Gardens Gold Nursery at Las Vegas, Nev., was celebrated September 1 to 3. Owner James B. Eaton is a former operator of nurseries in California.

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

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PENINSULA CHAPTER

Installation of officers was the main order of business at the October 5 meeting of the Peninsula chapter of the California Association of Nurserymen, Hyatt House San Francisco. Officers who will serve the chapter during the coming year are Peter Sugawara, Monte Bello Nursery, Los Altos, president; John Okumura, El Real Nursery & Floral Shop, Santa Clara, vice-president; James Weldon, Germain's Inc., San Jose, secretary, and Ralph Bernstein, Schmidt Nursery, Palo Alto, treasurer.

Directors are Chester Williams, Green Hills Garden & Pet Supplies, Millbrae; Edward Carman, Carman's Nursery, San Jose; Roy Dutton, W. B. Clarke & Co., San Jose, and Philip Matsumura, Mayfair Nurseries, Inc., San Jose.

Holdover directors are Walter Borchers, W. B. Clarke & Co.; Rupert Gurnee, Coulter's Nursery, San Carlos; Louis Shenone, Pacific Nurseries, Colma, and retiring president, John Hahn, Ruehl-Wheeler Nursery Co., Inc., San Jose.

Elmer Merz, executive secretary of the C. A. N., explained the history of the legislative assembly bill No. 2719, which classifies production of nursery stock as an agricultural activity, with ensuing tax benefits. Passage of this bill over strong opposition from labor and county supervisors was a real achievement for the nursery industry.

Mr. Merz also presented plaques to the Peninsula chapter members who are past presidents of the C. A. N.: James H. Wilson, Peters & Wilson Nursery, Millbrae; Clyde Stocking, Stocking Rose Nursery, San Jose, and Ray Hartman, Leonard Coates Nurseries, San Jose.

A highlight of the meeting was an outstanding orchid display by Kay Rinaman, Coulter's Nursery, San Carlos.

R. B. K.

NEW C. A. N. CHAPTER

A new chapter of the California Association of Nurserymen, to be known as the North San Diego chapter, was recently organized. Walter Pearcy, Garden Cove Nurs-

eries, Inc., Carlsbad, is president. Other officers include J. W. Ahlswede, Vista, vice-president; Herman Esswein, Herman's Nursery, Encinitas, secretary, and Terry Hildebrand, Yard N' Garden Center, Vista, treasurer. Directors are George St. Denis, Escondido; Fred Horakh, Vista; Howard Johnson, Valley Center; Oliver Abe, Vista, and W. E. Plimmer, Fallbrook.

ORANGE COUNTY CHAPTER

The Orange County chapter of the California Association of Nurserymen held a meeting October 11 at the Palms restaurant, Anaheim, with 32 persons attending.

David J. Roberts, Roberts Subtropical Gardens, El Modeno, president; H. A. Andersen, Andersen's Wholesale Nursery, Artesia, vice-president; James A. Tringham, Kellogg Supply Co., Inc., Westminster, secretary, and Lem Clark, treasurer,

as well as members of the board of directors elected at the September meeting of the chapter and listed in the September 15 issue of the American Nurseryman, were installed by John Armstrong, Jr., Armstrong Nurseries, Ontario, vice-president of the California Association of Nurserymen.

Harold B. Prickett, Prickett's Nursery, Santa Rosa, president of the C. A. N., gave a short talk on competition in the nursery trade at present compared to what it was 15 years ago. Prizes were received by several members present.

James A. Tringham, Sec'y.

LOS ANGELES PANEL

Elmer Merz, executive secretary of the California Association of Nurserymen, moderated a panel discussion on garden centers as the answer to chain store competition at a recent meeting of the Los Angeles chapter. Panelists were Al Hollister, Hollister's Nursery & Garden Shop, Costa Mesa; Julian Herman, Universal Nursery, North Hollywood; Chester Hogan, Great Western Rose Co., Pomona, and Herbert Fischer, Flowerland, San Bernardino.

Members had opportunity to re-

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quest answers to a group of questions that had been posed in advance, the moderator selecting the panelist who would comment. A few of the questions and answers, given in brief, follow:

Q. Can retailers use co-operative buying to compete with the volume buying of chain stores? A. Yes, but there is some problem created in the drift away from brand-name products.

Q. Would you like to see a concentrated effort by the C. A. N. to enlist the membership of the chain operations and their branches? A. Yes, to find out what is going on.

Q. In what way have the chain operations helped your business? A. By getting people acquainted with products they did not know existed before.

Q. What proportion of dry stock to green stock is appropriate for today's market? A. (1) 50 per cent dry and 50 per cent green, (2) 35 per cent dry and 65 per cent green, (3) 30 per cent dry and 70 per cent green.

Q. How do the eastern garden centers combat the effects of large discount houses? A. Give quality, service by professionals and value.

Q. Is the landscape department the best means to compete with volume selling? A. Considerable stock can be sold from rough sketches made of customers' grounds. The customers are not likely to buy at discount houses.

Q. How do you treat a customer who asks you to cut a can that was obviously bought at a discount house? A. Use courtesy. Sell the person something else and make a customer of him.

Q. How can the wholesaler help the average retailer compete with the volume operator? A. The wholesaler has an obligation to keep prices the same for everybody. He is a partner of the retailer.

Q. How do you keep plants from looking old and overgrown? A. Sell them or move them into larger containers.

Q. How do you make a sale when a customer asks for a plant or product you do not carry in stock? A. Suggest another item or better stock.

EL PALO ALTO

El Palo Alto, the tall redwood tree from which Palo Alto, Calif., gained its name, is undergoing renovation. Last spring the Palo Alto park and recreation officials became concerned about the tree. The California Association of Arborists ap-

QUALITY NURSERY STOCK SHADE TREES

	Per 10	Per 100	ACER SACCHARUM	Per 10	Per 100
ACER PLATANOIDES			Sugar Maple		
Drummondii Variegated	Norway	Maple	10 to 12 ft., branched... \$37.50	\$350.00	
8 to 10 ft., branched...	\$33.50	\$310.00	8 to 10 ft., branched... 32.50	300.00	
6 to 8 ft., branched...	28.50	260.00	6 to 8 ft., branched... 27.50	250.00	
5 to 6 ft., branched...	23.50	210.00	5 to 6 ft., branched... 22.50	200.00	
8 to 9 ft., whips...	21.00	185.00	5 to 6 ft., whips... 15.00	135.00	
7 to 8 ft., whips...	20.00	175.00	4 to 5 ft., whips... 12.00	105.00	
6 to 7 ft., whips...	18.00	165.00			
5 to 6 ft., whips...	14.50	130.00			
4 to 5 ft., whips...	10.00	90.00			
3 to 4 ft., whips...	8.00	75.00			
Faassen's Red-Leaved Maple			Columnar Sugar Maple		
6 to 8 ft., branched...	35.00	325.00	7 to 8 ft., 2-yr. 32.50	300.00	
5 to 6 ft., branched...	25.00	225.00	6 to 8 ft., 2-yr. 25.50	230.00	
8 to 9 ft., whips...	30.00	275.00	5 to 6 ft., 2-yr. 22.50	200.00	
7 to 8 ft., whips...	25.00	220.00	6 to 7 ft., 2-yr. 16.50	150.00	
6 to 7 ft., whips...	21.00	180.00	5 to 6 ft., 2-yr. 12.00	110.00	
5 to 6 ft., whips...	16.00	140.00	4 to 5 ft., 2-yr. 9.00	85.00	
4 to 5 ft., whips...	13.00	110.00	3 to 4 ft., 2-yr. 6.50	60.00	
3 to 4 ft., whips...	10.00	85.00			
Norway Maple			BETULA ALBA (European White Birch)		
12 to 14 ft., branched...	35.00	325.00	12 to 14 ft., branched... 35.00	325.00	
10 to 12 ft., branched...	30.00	275.00	10 to 12 ft., branched... 27.50	250.00	
8 to 10 ft., branched...	25.00	225.00	9 to 10 ft., branched... 22.50	200.00	
6 to 8 ft., branched...	20.50	180.00	6 to 8 ft., branched... 16.50	150.00	
5 to 6 ft., branched...	15.00	135.00	5 to 6 ft., branched... 12.00	110.00	
8 to 9 ft., whips...	10.50	100.00	4 to 5 ft., branched... 9.00	85.00	
7 to 8 ft., whips...	10.00	95.00	3 to 4 ft., branched... 6.50	60.00	
6 to 7 ft., whips...	9.50	90.00			
5 to 6 ft., whips...	8.00	75.00			
4 to 5 ft., whips...	6.00	55.00			
Columnar Norway Maple			FRAXINUS QUADRANGULATA		
11 to 12 ft., branched...	33.50	310.00	10 to 12 ft., branched... 37.50	350.00	
10 to 11 ft., branched...	30.00	275.00	8 to 10 ft., branched... 32.50	300.00	
9 to 10 ft., branched...	27.50	250.00	6 to 8 ft., branched... 22.50	200.00	
8 to 9 ft., whips...	25.00	225.00	6 to 7 ft., whips... 18.00	165.00	
7 to 8 ft., whips...	22.00	195.00	5 to 6 ft., whips... 15.00	135.00	
6 to 7 ft., whips...	18.50	170.00	4 to 5 ft., whips... 12.00	105.00	
5 to 6 ft., whips...	15.50	140.00	3 to 4 ft., whips... 11.00	100.00	
4 to 5 ft., whips...	12.00	110.00			
3 to 4 ft., whips...	10.00	80.00			
Schwedleri Maple			PLATANUS ORIENTALIS (European Sycamore)		
8 to 10 ft., branched...	30.00	275.00	8 to 10 ft., branched... 27.50	250.00	
6 to 8 ft., branched...	25.00	225.00	5 to 6 ft., branched... 18.50	170.00	
5 to 6 ft., branched...	20.50	180.00	QUERCUS PALustris (Pin Oak)		
8 to 9 ft., whips...	20.00	175.00	10 to 12 ft., branched... 42.50	400.00	
7 to 8 ft., whips...	18.00	165.00	8 to 10 ft., branched... 35.00	325.00	
6 to 7 ft., whips...	17.00	155.00	6 to 7 ft., branched... 27.50	250.00	
5 to 6 ft., whips...	13.00	120.00	5 to 6 ft., branched... 20.00	175.00	
4 to 5 ft., whips...	9.00	85.00	4 to 5 ft., branched... 13.50	125.00	
ACER RUBRUM			3 to 4 ft., branched... 11.00	100.00	
Red Maple			QUERCUS BOREALIS RUBRA		
10 to 12 ft., branched...	32.50	300.00	(Red Oak)		
8 to 10 ft., branched...	27.50	250.00	12 to 14 ft., branched... 42.50	400.00	
6 to 8 ft., branched...	22.50	200.00	10 to 12 ft., branched... 37.50	350.00	
5 to 6 ft., branched...	16.50	150.00	8 to 10 ft., branched... 32.50	300.00	
4 to 5 ft., branched...	12.50	115.00	6 to 8 ft., branched... 27.50	250.00	
3 to 4 ft., whips...	9.00	85.00	5 to 6 ft., branched... 20.00	175.00	

FLOWERING TREES

	Per 10	Per 100	CHEERY, WEEPING	Per 10	Per 100
CHEERRY, KWANZEN FLOWERING			Double Pink, Subhirtella		
6 to 7 ft., branched...	\$25.50	\$230.00	Single Pink, Subhirtella		
5 to 6 ft., branched...	23.50	210.00	No. 1, heavy selected	\$37.50	\$350.00
4 to 5 ft., branched...	20.00	175.00	No. 1,	35.00	325.00
3 to 4 ft., branched...	16.00	145.00	No. 2,	30.00	275.00
2 to 3 ft., branched...	12.00	100.00	LABURNUM VOSSI (Golden Chain)		
4 to 5 ft., whips...	12.00	110.00	6 to 8 ft., branched... 21.50		
3 to 4 ft., whips...	10.00	90.00	5 to 6 ft., branched... 20.00		
2 to 3 ft., whips...	8.50	75.00	4 to 5 ft., branched... 16.50		

Quantity prices and catalogs sent upon request.

POWELL VALLEY NURSERY

210 S. E. Vista Ave. Phone: MO 5-3537 Gresham, Ore.

Special Introductory Offer

THUJA ORIENTALIS AUREA NANA RAFFLES

1-gal., 8 to 10 ins. 75¢
1-gal., 6 ins., field-grown 65¢

Quality and Quantity

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ROSES

Top-quality, field-grown patented and standard roses.

Write for list and prices.

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Jefferson, Ore.

DOTY & DOERNER, Inc.

6691 S. W. CAPITOL HIGHWAY

PORTLAND 1, OREGON

WHOLESALE

GENERAL NURSERY STOCK

Best Seller for Christmas!



69¢
Suggested Retail

BROWNELL'S OREGON English Holly BOKAYS

A real money-maker for the holidays. . . . America's most beautiful holly, packaged for high mark-up, fast turnover, and self-service sales at your store! Customers reach automatically for these eyecatching Bokays of 3, 4 or 5 choice, berried sprays — see exactly what they're buying. Bokays have stems foil-wrapped for easy handling, speed sales because they're made up to sell at a single price. Brownell's Holly Bokays have been sold by the thousands. Let them make extra Christmas profits for you this year!

HOLLY BOKAYS are packaged 25 to the carton and are priced at 36¢ each; \$9.00 per carton.

Quantity price 50 cartons or more, \$8.00 per carton.

TO:

BROWNELL HOLLY FARMS

"Where Your Christmas Holly Grows"
Box 5965-G, Milwaukie, Oregon

Please ship the following, F.O.B. Milwaukie,
Oregon, to arrive _____ (Date)

Cartons English Holly Bokays @ \$_____ per carton.

Send FREE sample Holly Bokay and color catalog on Christmas Holly items.

Store Name _____

Address _____

City _____ Zone _____ State _____

Ordered by _____ Req. No. _____

pointed a committee to examine it. Their reports indicated that the tree, thought to be 1,000 years old, had many more years to live, if certain steps were taken. These included the addition of a built-in sprinkler system running from the ground to the top of the 111-foot tree and to be operated to spray out a mist two or three times a week. The purpose of this is to simulate the fog conditions which the tree prefers and which do not occur too regularly at Palo Alto and to wash the leaves free of smog and the sediment deposited on them by the engines of the Southern Pacific railroad, which pass close to the tree.

Also recommended was a regular program of feeding and watering the tree and certain surgery. While performing the surgery, workers found that after an injury caused by lightning several years ago termites had entered the wood, and this added to the cost of the repair project. But the infestation is not considered serious, as termites work on dead wood only and all such wood is being removed.

On the campus of Stanford University about a mile from the historic tree there was planted, about 50 years ago, a clump of redwood trees. These were set out by a member of the faculty at the university who expressed the thought that the original Palo Alto would soon succumb to the effects of civilization and one of the trees which he set out might be designated as the successor to the original tree. The replacements are still growing and still being cared for by the university, and they may some day fulfill the purpose for which they were set out.

W. B. B.

OREGON NOTES

Emmett Shaffer, Shaffer's Pansy Gardens & Greenhouses, Portland, was recently elected president of the Portland Men's Garden Club.

Grandparents of a baby boy, born to their daughter and son-in-law, Mr. and Mrs. Terry R. Busby, Milwaukie, are Mr. and Mrs. Charles H. Potter. Mr. Potter is editor of the Oregon Association of Nurserymen "Digger."

Glenn E. Brixey, landscape contractor of Corvallis, has entered the primary race on the Republican ticket for United States Senator from Oregon.

Vern W. Olney, agricultural chemical division, Geigy Chemical Corp., Ardsley, N. Y., has been transferred from his job as Pacific northwest technical fieldman to a

MAHONIA AQUIFOLIUM

(Oregon-Washington Holly Grape)

A very beautiful evergreen shrub with large, glossy leaves and yellow flowers conspicuously appearing in spring and followed by dark blue berries; a most satisfactory broad-leaved evergreen for any place in the United States.

	Per	Per
100	1000	
1-yr., S.	\$ 5.00	\$40.00
2-yr., S.	7.00	60.00
3-yr., S.	10.00	70.00

SEEDLINGS have been root-pruned to insure a good root system.

TERMS: Check is requested before shipment or will ship C.O.D., if preferred. All orders shipped by railway express unless otherwise stated.

Place Your Order Now
For Fall Delivery

Chenoweth's
MOUNT VERNON NURSERY
Mount Vernon, Wash.

(ALL ORDERS SHIPPED SAME DAY THEY ARE DUG)



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ROSES



Grown in the healthy, smog-free valley of central California.

Finest, field-grown, two-year-old rose plants in the west.

Featuring all the NEW A. A. R. S. AWARD WINNERS.

Remember, QUALITY means more profits for you.

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Moore

MINIATURE ROSES

Ask for new
1961 listing of
40 varieties—including

DIAN, LOLLIPOP, LITTLE
BUCKAROO, PINK HEATHER,
PINK JOY, POLKA DOT,
BIT O'SUNSHINE, etc. . . .

"Moore Miniature Roses"

SEQUOIA NURSERY Visalia, Calif.





OREGON GROWN

Combination car and truck loads throughout the USA. Write now for your '61-'62 catalog.

A broad selection, including shade and flowering trees, carefully grown in fine Oregon loam. Maximize profits. Order now.

Portland Wholesale Nursery Co.

5050 S. E. STARK ST.

Phone: BElmont 5-3113

PORLTAND 15, ORE.

SPRUCE COLORADO

BIRCH

Excellent

Quality and Color

Carefully grown specimens

	Blue	Blue-green	Green
Each	Each	Each	Each
30 to 36 ins.	\$4.75	\$4.00	\$3.25
24 to 30 ins.	4.25	3.50	2.75
18 to 24 ins.	3.75	3.00	2.25
15 to 18 ins.	3.25	2.50	1.90

CUT-LEAVED WEEPING

	EUROPEAN	CLUMP—	
Each	Each	Each	
8 to 9 ft.	\$2.50	10 to 12 ft.	\$2.50
7 to 8 ft.	2.25	8 to 10 ft.	2.00
6 to 7 ft.	2.00	6 to 8 ft.	1.50
5 to 6 ft.	1.65	5 to 6 ft.	1.10
4 to 5 ft.	1.35	4 to 5 ft.	.85

EUROPEAN WHITE

CLUMP— 3-Stem

DOERFLER SPECIALTIES

SHEARED

BOXWOOD

Many nurserymen tell us we have the best

SHEARED

GLOBE AND PYRAMID BUXUS SEMPERVIRENS

in the United States

Also Dwarf Suffruticosa and general nursery stock, including large shade and flowering trees.

We have shipped in carlots to many parts of the United States for years.

F. A. DOERFLER & SON, INC.
250 Lancaster Dr., N. E.
Salem, Ore.

Jan de Graaff's

OREGON BULB FARMS
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GRESHAM, OREGON

Lilies

Exclusively

Descriptive Catalog — Color Folder

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Fine Perennials—Hard-to-find items!
GERBERAS—STRELITZIAS—DAISIES
Write for our CATALOG and let us add your NAME to our list of satisfied customers.

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FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
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Crimson King Maple (Pat. No. 735)
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Constant Vigilance Results in Quality Stock

Combination carloads to eastern distributing points.
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CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties.
Quality only

VAN VEEN NURSERY
3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

position as resident representative for the company in Hawaii.

E. Emerson, Julius Deubner and Myrtle C. Thompson are the incorporating officers of the Western Oregon Seed Dealers' Association, which was organized recently.

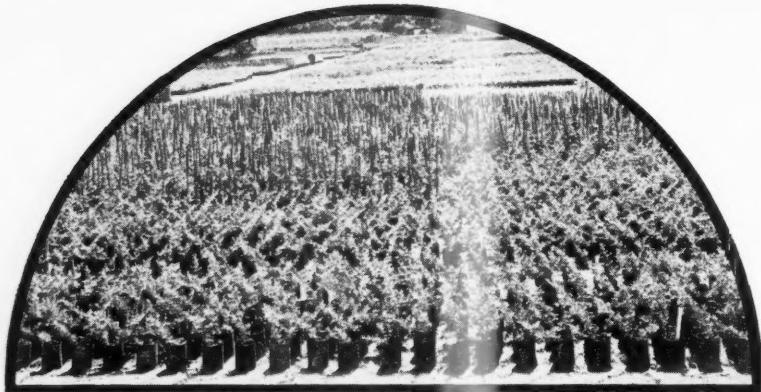
Governor Mark C. Hatfield of Oregon has appointed Roy Webster, horticulturist and fruit orchardist, Hood River, to a 4-year term on the public welfare commission.

On a year's leave and at present touring Europe is Dr. John Synder, dwarf tree expert and extension horticulturist specialist at Washington State University, Pullman.

Harold J. Foster, superintendent of nursery service, state department of agriculture, Salem, recently notified Oregon rose growers that roses shipped into Texas must be graded and labeled according to new Texas regulations, reported elsewhere in this issue. The state of Texas will accept Oregon grading if grades meet Texas standards, he said. New Texas regulations are available from Mr. Foster's office.

Junay's Garden Center, Van Kirk's Farm & Garden Store, Julia's Garden Supplies and Evergreen Garden Supply, all in the Montavilla section of Portland, have started their second year of joint advertising of special items. The weekly specials advertised by the four firms this past year boosted sales considerably, enabling them to meet a great deal of chain store and other outside competition.

Dr. Henry Hartman, Oregon



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From dwarf boxwoods to towering cedars — we grow everything you need to give your customers an impressive choice of the West's most selective landscaping stock. May we send you our new wholesale catalog today?

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ROSES OLD and NEW

Fine-quality, two-year plants budded on Multiflora in over 250 varieties.

Write for our list explaining our new freight-saving plan.



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Rt. 2, Box 96
GRESHAM, ORE.



Choice well-berried English Holly. Cut to order from corsage tips to long sprays. Select the size you want to avoid waste. Money back guarantee. Write today for price list with early order discounts.

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P.O. BOX 3323
Portland 8, Ore.

MILTON NURSERY CO. Since 1878 MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade Trees and Shrubs, Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

Licensed Growers of
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Imperial Locust (Pat. No. 1605)
Moraine Ash (Pat. No. 1768)
Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Sunburst Locust (Pat. No. 1313)

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Combination carlots for eastern distributing points.

LOOKING FOR CONSISTENT QUALITY?

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Hardy Rhododendrons
Skimmia Holly

Write for our list. Ask us about any special needs.

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NURSERY
3550 N.W. SALTZMAN ROAD - PORTLAND 10, OREGON - MI 4-8024

LANDSCAPING FOR MODERN LIVING

By editors of Sunset Magazine, 190 p. with 248 photos, 210 drawings and 9 plans. (1959). \$2.00.

American Nurseryman Chicago 4, Ill.

State University, Corvallis, has been heading research in which it appears that there is a correlation between pear decline and infestation of pear psylla in orchards of the Medford area.

George Fisher, a Salem, Ore., landscape architect, is conducting a 10-week course in farm home landscaping at the Mari-Linn School, Lyons.

A 9-hole pitch-and-putt golf course is being constructed and landscaped by Reed & Cross, garden center and landscape contractors, Eugene, at the Village Green motor hotel, at Cottage Grove. The landscape architect who designed the course is George Fisher, Salem.

The Oregon Society of the D. A. R. dedicated the Robert Newell House pioneer garden, at Champoeg, recently. The period museum, which the house now is, is surrounded by a charming, native garden. Mrs. Leona Knapp, Ted Knapp Greenhouses, Portland, was chairman of the committee which arranged for the procurement of plants and the planting. The Oregon Association of Nurserymen donated all plants used; the Landscape Gardeners Association did the landscaping; the Webfoot Fertilizer Co. donated all fertilizer used, and the Oregon fescue commission donated all grass seed used. C. H. P.

WASHINGTON STATE NEWS

Dr. Martin W. Carstens, superintendent of the northwestern Washington experiment station, died of a heart attack at his home at Mount Vernon, September 30. Dr. Carstens, who had taken his B.S. degree in botany from the University of Montana and his doctorate in philosophy from Washington State University, had been the superintendent at the Mount Vernon station for the past 10 years. He was recently named an honorary member of the Northwest chapter of the Washington State Nurserymen's Association.

Regulated counties under the European pine-shoot moth quarantine are Whatcom, Skagit, Snohomish, King, Pierce, Kitsap, Mason, Lewis and Pacific. In eastern Washington, Spokane is the only county where pine-shoot moth has not been found. In order to assist in eradication of the pest, only clean pines from nonregulated or free areas will be permitted into that county. Crews have now completed the survey work on the moth program and researchers are attempting



Oregon English Holly

TEUFEL'S "HYBRID" PREMIUM GRADE

SELECTED, DARK GREEN, HEAVILY BERRIED SPRAYS

10 lbs. per carton	\$ 7.50
25 lbs. per carton, long	18.75
50 lbs. per carton, long	37.50

SELECT GRADE—Glossy green foliage with lots of red berries

\$6.00 per 10-lb. carton	\$55.00 in lots of 100 lbs.
--------------------------	-----------------------------

Selected shorter sprays also packed in:

BOXES WITH TRANSPARENT WINDOW

ONE-POUND BOXES	HALF-POUND BOXES
\$10.80 per carton of 12 1-lb. boxes	berried green..... \$13.50 per carton of 24 ½-lb. boxes
\$13.50 per carton of 12 1-lb. boxes	berried variegated..... \$16.50 per carton of 24 ½-lb. boxes

THORNPRESS TRANSPARENT BAGS

Approx. ½ lb. each—berried green, \$16.00 per carton of 25 bags

TEUFEL'S VARIEGATED HOLLY—With lots of red berries this year.

10 lbs. per carton..... \$8.75	25 lbs. per carton, long... \$21.85	50 lbs. per carton, long... \$43.70
--------------------------------	-------------------------------------	-------------------------------------

All F.O.B. Portland, Ore. Grown and packed by . . .

GEORGE TEUFEL'S HOLLY FARM

(More than 200 acres of producing holly orchard)

7307 W. Barnes Rd.

Portland 1, Ore.

CASH WITH ORDER, PLEASE

ILLUSTRATED PRICE LIST ON REQUEST

ing to find a suitable treatment for pines that will assure complete control of the pest on nursery stock. Until such event takes place, the quarantine regulations will remain in effect.

Dr. Mark Buchanan, director of Washington State University's agricultural experiment stations, announced the release of two new chrysanthemums, Starburst and Heather. Home gardeners should be able to buy rooted cuttings next spring from commercial nurserymen in Washington and Oregon. Propagation material of the new chrysanthemums was distributed to the commercial growers last spring.

Starburst is a white double, with a light yellow center touched with pink. The flowers range from two and a half to three and a half inches in diameter. Heather is a 2-toned intermediate pompon varying from two to two and a half inches in diameter. The flowers develop a magenta center that shades to light lavender outer petals.

Betty Alkema, Sec'y.

EXPANDING its operations to include a nursery on Willow Creek road, three miles north of town, is Allen's Flower Shop, 326 Grove, Prescott, Ariz.

SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman.
Planting guide for florists and nurserymen. **\$8.00.**
American Nurseryman
Chicago 4, Ill.

QUALITY LINERS

Write for our catalog listing over 500 varieties.

MITSCH NURSERY
Aurora, Ore.

RHODODENDRON AND EVERGREEN LINERS

In Season

J. B. WHALLEY NURSERY
Rt. 2, Box 683 TROUTDALE, ORE.

Maurice C. Ravensberg

Boskoop, Holland

Reliable exporters for general nursery stock since 1922.

Catalog on application.

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Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

Hardy, Northern-Grown

DWARF MALLING ROOTSTOCK

E. M. IX, VII, II and

Woolly-aphid resistant

Malling-Merton

Quince, A

Transplanted stock and well-rooted layers available.

Send for our list.

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WRITE FOR NEW LIST

Berried Hollies

Berried Skimmia

Packaged Cut Holly

ALFRED TEUFEL

Wholesale Grower

11414 N. W. Cornell Rd.

Portland 10, Ore.

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the December 1 issue must be received by Friday November 10

Forms for December 15 issue will close Friday, November 24

AZALEAS

BECKY AZALEAS U.S. patent No. 1699.
POTTED PLANTS FOR FORCING
4-in. clay pots, packed 16's \$0.85 each
5-in. plastic pots, packed 12's 1.15 each
5-in. clay pots, packed 9's 1.50 each
6-in. clay pots, packed 6's 2.50 each
Prices are F.O.B. Secane and include patent label for each plant purchased.
VOSTERS NURSERIES & GHSES., INC. Secane, Pa.

AZALEAS HINO-CRIMSON SNOW, CORAL BELLS, FIELDERS WHITE, GEO. TABER, MRS. G. G. GERBING AND MANY OTHER evergreen varieties, well budded, for forcing and landscape planting. Order early, we will hold in plastic greenhouse at no extra cost. A list and prices await your request.
EST COAST FLOWER FARMS, Pink Hill, N. C.

HINO-CRIMSON, GLENN DALES, ETC. Thousands of beautiful Hino-Crimson and other evergreen Azaleas, including newer va- rieties. These bushy, well-budded for land- scape planting and forcing. Book your order now, to be sure of getting yours for the com- ing season. Landscape sizes.
THE TANKARD NURSERIES Exmore, Virginia.

AZALEAS, ALL COLORS, ALL KINDS. Seed, seedlings, rooted cuttings, transplants in flats and pots. Evergreen and deciduous species and hybrids. Request fall-spring list.
JOHN VERMEULEN & SON, INC. P. O. Box 336A Neshanic Station, N. J.

AZALEAS For forcing and landscape planting. Write for our trade list.
THE LEVICK NURSERY CO. R. F. D. 3 Bridgeton, N. J.

BARBERRIES

RED-LEAVED BARBERRIES

(Berberis atropurpurea.) 3-yr. trimmed seedlings, light. 9 to 12 ins., \$5.00 per 1000.
Cash with order.

CENTER ROAD NURSERY

Alex Heinz 1170 S. Center Rd. Saginaw, Mich.
RED-LEAVED BARBERRY 2-yr. seedlings Per 100 Per 1000 3 branches up, 18 to 24 ins. ... \$15.00 \$100.00 2 branches up, 12 to 18 ins. ... 9.00 70.00 1 branch up, 9 to 12 ins. 7.00 40.00 1 branch up, 6 to 9 ins. 5.00 30.00

Write for list.
PETER BROUWER'S NURSERIES 24 Lester St. New London, Conn.

BERRY PLANTS

RASPBERRY PLANTS Cumberland, black, tips \$4.00 per 1000 New Logan, black, tips 4.00 per 1000 Bristol, black, tips 4.00 per 1000 Latham, red, suckers, 3/16 ... 4.00 per 1000 Latham, red, suckers, 1/4 5.00 per 1000
C. H. BENEDICT, Grand Junction, Mich.

BULBS AND TUBERS

HOLLAND AND DOMESTIC BULBS FOR FALL AND SPRING Write for our wholesale price list.
DeGROOT BULB CO. 12-02 Ellis Ave. Fair Lawn, N. J. Phone SWathmore 6-6026

IMPORTED DUTCH FALL BULBS WRITE FOR WHOLESALE PRICE LIST.
HEEMSKERK & CO.'S BULBS P. O. Box 392 Ridgewood, N. J.

BUXUS

OLD ENGLISH BOXWOOD Nice bushy plants.
Per 100 Per 1000 4 to 6 ins. \$30.00 \$250.00 6 to 8 ins. 42.00 350.00

Write for price list.

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See our double page ad in this issue.

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Largest flowered hybrids.
Grown and shipped in 3-in. Jiffy-Pots. Will
bloom for you customers this summer.

Special offer C-1: 10 each Crimson Star
(red), Lanuginosa Candida (white), Lawsoni-
ana (blue), Lazurstern (purple), Nelly Moser
(pink).

50 plants, only \$28.00. Packing FREE.

Write for complete wholesale catalog fea-
turing a complete selection of Clematis,
Roses and many other specialties.

THE CONRAD-PYLE CO.
West Grove 22, Pa.

CLEMATIS MONTANA RUBENS

(Pink Anemone Clematis)

A strong, vigorous, hardy variety thriving
under most adverse conditions. Blooms pro-
fusely around Memorial day.

1-yr. staked, \$75.00 per 100.

Stake-grown, heavy, 2-yr., B.R.

\$100.00 per 100.

Stake-grown, heavy, 3-yr. field-grown,

B.R., \$150.00 per 100.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

CLEMATIS VINES

QUALITY LARGE-FLOWERING HYBRIDS

20 OUTSTANDING VARIETIES

FOR FALL AND SPRING SHIPMENTS

FROM 4-IN. 3-IN. 2 1/2-IN. POTS

GREENHOUSE-GROWN

STERILIZED PRODUCTION

WRITE FOR COMPLETE LIST

ARTHUR H. STEFFEN, INC.

1253 Fairport Rd., Box 84 Fairport, N. Y.

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COTONEASTER PRAECOX

One of the hardiest Cotoneasters with
large berries like Cranberries which color up
in the middle of August and remain on until
very late fall.

2-yr. T. 6 to 12 ins. \$50.00 per 100,

\$450.00 per 1000.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

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DELPHINIUMS

Pacific Hybrids, Belladonna, Bellamoss, Blackmore & Langdon, all colors. Plants grown in open field in rows properly spaced for root development under irrigation. All sand-grown. Order now for early fall shipment and reserve for early spring 1962 delivery. New wholesale list available.

RICHARDS GARDENS

Box AN Plainwell, Mich.

Classified Ads Offer Maximum

Results at Minimum Cost.

DOGWOODS

PINK DOGWOOD

(Cornus florida rubra) Each

Each per 100

1-yr. 6 to 12 ins. \$0.40 \$0.35

2-yr. 12 to 18 ins. .50 .45

3-yr. 18 to 24 ins. .60 .55

4-yr. 24 to 30 ins. .85 .75

5-yr. 30 to 36 ins. 1.00 .90

2-yr. 3 to 4 ft. 1.50 1.40

2-yr. 4 to 5 ft. 2.50 2.25

2-yr. 5 to 6 ft. 3.00 2.75

WHITE FLOWERING DOGWOOD

(Cornus florida) 2-yr.

1.25 1.00

3-yr. .90 .60

4-yr. .50 .40

18 to 24 ins. .25 .20

18 ins. br. .10 .08

GALE'S DOGWOOD NURSERY

Winchester, Tenn.

B&B extra. Inspection invited.

VOYERTSHARKE FARM NURSERIES

Cor. of Naugatuck Ave. and W. Rutland Rd.

Phone TR 4-3498 Milford, Conn.

Outdoor beds, once transplanted Each. 100

Pachistima cambyi, 1-yr. \$0.20

Pachistima cambyi, 2-yr.30

Euonymus Sarcoxie, 2-yr.25

Canadian Hemlock, 2-235

Hicks Yew, 3-yr.35

Browns Yew, 3-yr.35

Boxwood (welleri), 3-yr.35

Ilex convexa, 3-yr.35

Whiteman's Gardens, R. 1, Plymouth, Ind.

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EPIMEDIUMS

Epimedium nivium (white)

Epimedium rubrum (red)

Grows either in sun or shade and makes an ideal ground cover. Good for planting under Rhododendrons and other evergreen shrubs. Has stiff leathery leaf. Immune to disease and insects.

1-yr. \$45.00 per 100, \$400.00 per 1000.

WHERE QUALITY EXCELS. No charge for packing.

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EUONYMUS LINERS

ROOTTED CUTTINGS from open frames.

Per 100 Per 1000

E. fortunei coloratus \$6.00 \$45.00

E. fortunei minimus 8.00 60.00

E. fortunei Samaria 8.00 45.00

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EUONYMUS COLORATUS

Per 100 Per 1000

1-yr., field-grown \$12.00 \$100.00

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HANSEN BROS. NURSERIES, INC.

Phone MO 4-3923 Narberth, Pa.

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EVERGREEN LINERS

Per 100 Per 1000

GLOBE ARBORVITAE, woodward, dark green, 1-yr.

transplants, 4 to 6 ins. \$30.00 \$250.00

Hovey's, green; 1-yr. transplants, 4 to 6 ins. 25.00 200.00

2-yr. trans., 6 to 8 ins. 40.00 300.00

PYRAMIDAL ARBORVITAE compacta, green; 1-yr.

transplants, 6 to 7 ins. 35.00 300.00

JUNIPER, Blue Pfitzer, (chinensis nitzi), 1-yr.

transplants, 5 to 7 ins. 25.00 200.00

JUNIPER, Irish, 1-yr. transplants, 4 to 6 ins. 30.00 250.00

JUNIPER, Andorra, 1-yr.

transplants, 6 to 8 ins. 30.00 250.00

JAP. YEW, grown from seed, Taxus cuspidata ciliata, upright, pyramidal; 2-yr., (2-1), 4 to 8 ins. 30.00 200.00

Taxus cuspidata, spreading, 1-yr. transp., 5 to 6 ins. 25.00 175.00

2-yr. transp., 6 to 8 ins. 35.00 250.00

Taxus hicksii, upright, 1-yr. transp., 5 to 6 ins. 25.00 175.00

2-yr. transp., 6 to 8 ins. 35.00 250.00

Taxus baccata, upright, 1-yr. transp., 5 to 6 ins. 25.00 175.00

2-yr. transp., 6 to 8 ins. 35.00 250.00

Taxus hunnewelliana, semi-upright, 1-yr. transp., 4 to 6 ins. 25.00 175.00

2-yr. transp., 6 to 8 ins. 35.00 250.00

Taxus intermedia, spreading, 1-yr. transp., 5 to 6 ins. 25.00 175.00

2-yr. transp., 6 to 8 ins. 35.00 250.00

JAPANESE HOLLY (Ilex), rotundifolia, transplants, 6 to 10 ins. 35.00 300.00

convexa, transplants, 6 to 10 ins. 35.00 300.00

crenata hetzii, transplants, 6 to 10 ins. 35.00 300.00

AMERICAN HOLLY, rooted cuttings, ratio 1 male to 9 female

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DELIA BRADLEY, 1-yr. transp., 8 to 12 ins. 50.00 400.00

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Outdoor beds, once transplanted Each. 100

Pachistima cambyi, 1-yr. \$0.20

Pachistima cambyi, 2-yr.30

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Browns Yew, 3-yr.35

Boxwood (welleri), 3-yr.35

Ilex convexa, 3-yr.35

Whiteman's Gardens, R. 1, Plymouth, Ind.

EVERGREENS.

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T. G. OWEN & SON, INC.

Columbus, Miss.

FIELD-GROWN LINERS			
Heavy rooted.	100	1000	\$0.12
Greek Juniper, 6 to 8 ins.	.....	.....	\$0.10
Greek Juniper, 8 to 12 ins.	.....	.....	.15
Greek Juniper, 2-yr. each.13
Hetz Juniper, 6 to 8 ins.20
Hetz Juniper, 6 to 12 ins.14
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Pfitzer Juniper, 4 to 6 ins.17
Pfitzer Juniper, 6 to 8 ins.20
Von Ehron Juniper, 6 to 12 ins.12
Von Ehron Juniper, 6 to 12 ins.10
Write for prices on B&B stock.			
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Phone EL 6-5444			

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2-YR. POTTED STOCK

The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings. 2-yr. pot-grown stock, 7 to 9 ins. sheared, 20¢ to 26¢ each per 1000 rate.

1-yr.-old, heavy rooted cuttings, 8¢ to 10¢ per 1000 rate.

NOTE: Write for price list with full line of potted stock and rooted cuttings. "GET ACQUAINTED" OFFER on 250 2-yr. pots plants or 250 rooted cuttings. Special prices on large quantities. Samples free on request. Call collect TIPP CITY, NO 7-6398

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Our specialty.

Sturdy liners, dirt-grown in full sun. Each, 100 1000

4 to 6 ins.	8¢	7½¢
6 to 8 ins.	10¢	10¢
8 to 10 ins.	17¢	15¢
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James W. Lawson, Mgr.

140 Woodland Dr. Thomasville, Ga.
Phone Canal 6-4245; Canal 6-1375

Extra nice liners, 2-yr., 2½-in. pots. Packed in wood, strong, wired crates, \$15.00 per 100, \$125.00 per 1000.

Nandinas Pittosporum tobira
Baker's Arborvitae Magnolia grandiflora
Wax Ligustrum Pfitzer Juniper
Euonymus japonica Hetz Juniper
Buxus sempervirens Aleppo Pines
Magnolia grandiflora Spiny Greek Juniper
Cherry Laurel

Cedrus deodara, 100, \$20.00; 1000, \$175.00.
Frankston Nursery Co., Box 326, Frankston, Tex.

LINING-OUT EVERGREENS

SEE OUR DISPLAY AD
IN THIS ISSUE
ON PAGES 20-21.

CARTWRIGHT NURSERY CO.
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KOSTER BLUE SPRUCE

1-yr. grafts, \$1.50.

Cedrus atlantica glauca, 75¢.
Cedrus atlantica pendula, \$1.00.
Fall delivery.

Cash with order.

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TSUGA CANADENSIS, CANADA HEMLOCK

Collected seedlings.

Per 100 Per 1000

6 to 9 ins. \$5.00 \$30.00
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Send for complete trade list of hardy native Ferns, wildflowers, Evergreens, trees and shrubs.

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FOR FALL POTTING, 4 to 6 ins.
CUSPIDATA AND HICKSI, \$50.00 per 1000.

ADD 2¢ EACH LESS THAN 100.

ADD 1¢ EACH 100 to 1000.

OUR SEASON STARTED SEPTEMBER 15

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Evergreen dwarf Mahonia.

For fall or trade location.

U.S.D.A. permits

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Strong liners that will please you.

Each, 100 1000

Hemlock, TT, 8 to 10 ins. 25¢ 22½¢
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2/16 to 3/16-in. cal. (for understocks) 7.25 67.50

Sorry, we are sold out of larger sizes.
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Canaera Juniper, 3 to 3½ ft. 3.50 3.25

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Columnar Juniper, 3 to 3½ ft. 3.50 3.00

Columnar Juniper, 3½ to 4 ft. 3.75 3.50

Glaucia Juniper, 2½ to 3 ft. 3.25 3.00

Glaucia Juniper, 3 to 3½ ft. 3.50 3.25

Glaucia Juniper, 3½ to 4 ft. 4.00 3.75

Hill's Dundee Juniper, 2½ to 3 ft. 3.00 2.75

Hill's Dundee Juniper, 3 to 3½ ft. 3.50 3.25

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Von Ehron Juniper, 18 to 24 ins. 2.50 2.25

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Office 4 miles west of Cambridge City, Ind., on U. S. 40, 46 miles east of Indianapolis.

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LARGE SELECTION OF sizes

In these and many other varieties.

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WHITE PINE SCOTCH PINE NORWAY SPRUCE

WHITE-FLOWERING DOGWOOD Transplanted. Have heavy matted root

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2 to 3 ft. \$2.50

3 to 4 ft. 3.00

4 to 5 ft. 4.50 and 5.50

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B&B to A. A. N. specifications or as desired.

Special prices on quantity orders. Special

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Pines, lots 100, each Red White Scotch

Sheared, 2 to 3 ft. \$2.50 \$2.50

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5 to 6 ft. B&B 5.50 5.50

6 to 7 ft. B&B 7.00 7.00

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Cut trees and boughs, 200 acres of trees.

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All Evergreens, heavy landscape species, well-sheared. Make me an offer on rows, blocks or all.

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Well-rooted and straight.
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Apple, Peach, Pear, Plum, Nectarines. Ask for complete wholesale price list.
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Myrtle (*Vinca minor* or common Periwinkle), finest Ohio-grown; 20 to 25 lead clumps, \$50.00 per 1000. Quick delivery.
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Mist propagated outdoors.
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Plants with 20 leads or more and good roots, \$5.00 per 100, \$40.00 per 1000.

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Lonicera japonica halliana, extra heavy No. 1, 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00.
Experienced labor for grading and packing quantity orders. Immediate shipment.

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Certified for shipment anywhere.

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CUTTING WOOD
Taxus cuspidata
Taxus hicksii
Taxus intermedia (Sebian)
2c each.

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ORDER NOW. SHIPPED WHEN NEEDED
Strong, healthy, true to name. Individually selected. Neat expert packing free. Add 10 per cent for parcel post, balance refunded. (Minimum total order \$10.00.)

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JOHN VERMEULEN SON, INC. JOHN VERMEULEN SINCE 1921

Neshanic Station 1, N. J.

HARDWOOD CUTTINGS

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Maney's Juniper 20.00

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Taxus capitata, upright Yew, TIPS 15.00

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Delivery at any time by Railway Express or Greyhound bus. Please specify, otherwise shipment will be made by express. 50¢ at 1000 rate.

Packed free. Cash with order, please.

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Turn your Surplus Stock
into cash
with a Classified Ad in
the American Nurseryman.

AMERICAN NURSERYMAN

HARDWOOD YEW CUTTINGS

Unrooted. Hand-trimmed from good stock. *Taxus cuspidata*, sp. *Taxus brownii*. *Taxus intermedia*.

Taxus hatfieldii \$20.00 per 1000. F.O.B. Cash in advance.

Shipped November 15 to January 15. No packing charge.

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HAND-TRIMMED CUTTINGS

7 ins. and up.
20,000 *Taxus densiformis* 20,000 cuttings, following varieties:

Taxus henryi, *hatfieldii*, *hicksii*, *Vermeulenii* and *cupsida*. *Juniperus hetzii glauca*, *Ilex*, *convera* and *latifolia*.

\$15.00 per 1000. Lot of 40,000 for \$5.00.

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Skillman, N. J.

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HARDY PLANTS
Vigorous, healthy open bed grown SEEDLINGS, suitable for 2 1/4-in. bands or pots. Set in cold frame or cool greenhouse for early SPRING SALES.

Per 50

DELPHINIUM PACIFIC GIANTS Round Table, mixed \$2.50

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EARLY SPRING-SOWN HEAVY SEEDLINGS.

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HARDY FIELD-GROWN PERENNIALS

Ajuga metallica, *Anchusa*, *Aquilegia*, separate colors; *Arenaria* (*Sandwort*), *Astilbe*, *Campanula*, *Carnations*, *Chives*, *Chrysanthemums*, *Delphinium Pacific Hybrids*, 10 separate colors; *Dianthus*, *Dicentra spectabilis*, *Digitalis*, *Doronicum*, *Gaillardias*, *Helleborus niger*, *Iberis sempervirens*, *English Lavender*, *Lithospermum*, *Russell Lupines*, separate colors; *Myosotis*, *Oriental Poppies*, *Phlox subulata*, 15 varieties; *Primroses*, *Pyrethrums* (*Daisies*), *Shasta Daisy Esther Read*, *Sedums*, 10 varieties; *Sweet Williams*, *Thymes*, *Tritomas*, *Violas*, *Violets*.

If you have not received our list, send for it now. 100 more good varieties. Special prices in 1000 lots.

26-picture sets color chart, ready to hang, sent with every order of \$10.00 or more.

All plants freshly dug for each order.

Shipping season begins September 15.

GEORGE FRANK & SON Penfield, N. Y.

PERENNIALS

Ready for landscaping size. Heavy ONE-YEAR-OLD field-grown plants. Over 525 choice HARD TO GET perennials grown exclusively by

SPRINGBROOK GARDENS, INC. Mentor, O.

Send for free catalog.

ACHILLEA MOONLIGHT

A clear yellow which does not fade. 18 to 20 ins. tall with silvery foliage. Plant with *Salvia Oestfjordii* or *Geranium Johnson's* blue for a stunning color combination, or use it for cut flowers. This is only one of hundreds of interesting hardy plants in our new price list. Send for it today.

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BLEEDING HEARTS (*SPECTABILIS*)

25 100 1000 \$5.50 19.00 \$170.00

3 to 5 eyes 9.00 30.00 250.00

5 to 8 eyes 12.00 40.00 350.00

For larger quantity, write for special prices.

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Crescent, Ia.

HARDY PERENNIALS

All sand-grown under irrigation, in rows properly spaced for root development. Order now for early fall and early spring, 1962 delivery. New wholesale list available.

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BETTER PERENNIAL PLANTS

with that wonderful root system.

Over 500 varieties. Write for catalog and

FREE DISPLAY SHEET IN COLOR.

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Holland, Mich.

XUM

PITZONKA'S FIELD-GROWN
PERENNIALS
Write for trade list.
PITZONKA'S PANTRY FARM & NURSERY
Bristol, Pa.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

FIELD-GROWN HARDY PLANTS
KINGWOOD NURSERIES
Mentor, O.

HARDY PERENNIALS AND LINERS
Mountain-grown. Ask for list.
AVALON MOUNTAIN GARDENS, Dana, N.C.

HEATHERS

ERICA CARNEA WINTER BEAUTY
(Deep pink winter blooming Heather)
Blooms constantly outdoors during cold weather, from early December to April. Flowers remain on plants until the weather becomes warm in April. An ideal plant for window boxes and under planting in foundation plantings.

2-yr. TT, \$50.00 per 100, \$450.00 per 1000.
WHERE QUALITY EXCELS. No charge for packing.

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

HEDGES

HEDGE PLANTS
Amur River Privet (amurensis), 1-yr. rooted cuttings, \$35.00 per 1000, 2-yr., \$45.00 per 1000.
Chinese Privet (ovalifolium), 1-yr. rooted cuttings, \$45.00 per 1000.

Rosa multiflora japonica, for hedge or live fence; 2-yr. \$35.00 per 1000; 3-yr., 4 ft. high, cut back, \$45.00 per 1000.

Euonymus patens, 2-yr., \$45.00 per 1000.

IVY-DALE NURSERY
Box 41, Upper River Rd. Gallipolis, O.

HELLEBORUS

HELLEBORUS NIGER
(Christmas Rose)
1-yr. sdgs., \$15.00 per 100, \$125.00 per 1000.
2-yr. T, \$40.00 per 100, \$350.00 per 1000.
• Suitable for mail order trade and to pot up for roadside stand sales.

WHERE QUALITY EXCELS. No charge for packing.

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

HEMEROCALLIS

HEMEROCALLIS
300 varieties. The best of new and old. Heavy quality stock at bargain prices. Mixed stock as low as 3¢ each.

RIEGEL PLANT CO., EXPERIMENT, GA.

HEMEROCALLIS
Send for wholesale list.
MIDDLEPEN PLANTATION
Orangeburg, S. C.

HOLLY

AMERICAN HOLLY
(Ilex opaca)
Named varieties, northern origin, specimen plants 3 to 8 ft. some larger: Betsy, Cape Cod dwarf, Cardinal, Christmas Carol, Clark, Farage, Goldfin, Griscom, Highbush, Manig, Mrs. Santa, Torchbearer, Westcroft. Yule. Small numbers others, also select males. Plants well-filled, free of leaf spot excellent color, mostly well-barked.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone TU 2-2441

ENGLISH HOLLY
Green male, female and variegated. 2½-in. pots, 8 ins. tall, 30c; 10 ins. tall, 75c; 4-in. pots, 10 ins. tall, 40c; 4-in. well-branched, 75c. 4-in. pots, Osmanthus ilicifolius var. galus, well-branched, 75c.

Ready now. Cash with order, please.

KRUSCHKE GREENHOUSES
Route 2 Clackamas, Ore.

ILEX OPACA

HARDY PROVEN VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK
Write for our price list.

F. R. GENARD
Box 64 New Lisbon, N. J.

ILEX OPACA OLD HEAVY BERRY
Excellent, strong unrooted cuttings available in quantity.

\$50.00 per 1000.

Packing free for CASH WITH ORDER.

WELLS NURSERY Red Bank, N. J.

LIVE POTTED HOLLY FOR CHRISTMAS
Real or artificial berries, also males.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

ENGLISH HOLLY
Green female and variegated, in 4-in. plastic pots. 2-yr.-old, 12 to 20 ins. tall, 75c each. F.O.B. Portland. Ready now. Cash with order, please.

LAKESIDE GARDENS
1340 S. E. 9th Ave. Portland 14, Ore.

Ilex, bullata, and rotundifolia, transplants, extra nice branched, 12 to 15 ins., \$15.00 per 100. Tidwell Nurseries, Greenville, Ga.

HONEYSUCKLES

HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants. 3, 4, 5-in. leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grafting and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckle, let us supply your needs. Strong, well-developed plants, \$5.00 per 100, \$40.00 per 1000. Orders carefully and promptly filled.

Tidwell Nurseries, Greenville, Ga.

IVIES

HARDY IVY
For ground cover, terraces, walls and planters.

Hedera helix, extra strong plants with started runners, \$6.00 per 100, \$55.00 per 1000. Hedera helix Manda's Crested, \$7.00 per 100, \$65.00 per 1000.

Hedera helix Ivalace, \$7.00 per 100, \$65.00 per 1000.

Hedera helix pedata Birdsfoot, \$7.00 per 100, \$65.00 per 1000.

HOLLY ACRES NURSERY
Box 669 Red Bank, N. J.

Phone SH 1-2485

HARDY IVY

2¼-in. pots.

\$14.00 per 100, \$125.00 per 1000.

Rooted cuttings, \$7.00 per 100.

Cash with order, 5 per cent discount; 1/4 deposit with all orders, balance at shipping time. 300 at 1000 rate.

NEIDEL'S NURSERY
216 Park Ave. Oil City, Pa.

IVIES Per 100 Per 1000

Wilson's \$12.00 \$100.00

Rochester 10.00 80.00

Sweetheart 15.00 135.00

Stardust 25.00

Write for our complete descriptive list of new and unusual quality plant selections.

THE JOSEPH F. MARTIN CO.
Painesville, O.

BALTIC IVY
Thorndale, sub-zero strain, landscaping size, 2-in. pots, \$14.00 per 100, \$125.00 per 1000; rooted cuttings, \$7.50 per 100. New Wilson strain, pots, 15c; rooted cuttings, 8½c.

STRATFORD GARDENS
Russell Breeze, R. 9 Delaware, O.

ENGLISH IVY Per 100 Per 1000

2½-in., pot-grown (1-yr.-old) \$12.50 \$115.00

Lot of 5000 plants 15.00 105.00

HANSEN BROS. NURSERIES, INC.
Phone 215 MO 4-3923 Narberth, Pa.

LINING-OUT STOCK

LINING-OUT STOCK

Abelia Edw. Goucher, 10 to 12 ins. \$0.15

8 to 10 ins. 12½

Abeia grandiflora, 10 to 12 ins. 15

8 to 10 ins. 12½

Abelia sherwoodii (new growing), 8 to 10 ins. 15

Acer palmatum, 2 to 3 ft. 50

18 to 24 ins. 25

Ajuga reptans 05

Arborvitae (Berckmans Golden), 6 to 8 ins. 15

Arborvitae, globe, 6 to 8 ins. 15

Banker's Rose (white), 8 to 10 ins. 20

Buxus rotundifolia (large round leaf), 6 to 8 ins. 20

Buxus sempervirens, 6 to 8 ins. 15

Buxus suffruticosa, 4 to 6 ins. 15

Cephalotaxus harringtonia fortunei (Plum Yew), 8 to 10 ins. 20

Cercis canadensis (Red Bud), 2 to 3 ft. 15

18 to 24 ins. 10

Chamaecyparis cyano viridis, 3 to 6 ins. 15

Clevera Laurel, 10 to 12 ins. 10

Cleyera japonica, 6 to 8 ins. 15

Cotoneaster divaricata, 8 to 10 ins. 15

Cotoneaster francheti, 8 to 10 ins. 15

Cotoneaster horizontalis, 8 to 10 ins. 15

6 to 8 ins. 15

Cotoneaster microphylla, 6 to 8 ins. 15

Cotoneaster parneyi, 8 to 10 ins. 15

Cunninghamia glauca (Blue China Fir), 8 to 10 ins. 20

6 to 8 ins. 15

Cunninghamia green (China Fir), green, 6 to 8 ins. 15

Elaeagnus fruitlandii, 8 to 10 ins. 15

Eriobotrya japonica (Loquat), 1-yr., 3 to 6 ins. 10

Fatschedias, 6 to 8 ins. 15

Forsythias, 15 to 18 ins. 15

(Continued in next column)

3 to 4 ins. 15

Ginkgo biloba, 6 to 8 ins. 15

Hypericum, 10 to 15 ins. 15

Ilex cassine, 10 to 12 ins. 15

8 to 10 ins. 15

Ilex cassine attenuata, 10 to 12 ins. 15

Ilex cornuta burfordi, 10 to 12 ins. 15

8 to 10 ins. 15

Ilex cornuta rotundifolia, 3 to 6 ins. 15

Ilex crenata bullockii, 8 to 10 ins. 15

Ilex crenata hetzii, 8 to 10 ins. 15

Ilex crenata rotundifolia, 8 to 10 ins. 15

Ilex opaca Croonenburg, 8 to 10 ins. 15

Ilex opaca East Palatka, 8 to 10 ins. 15

Ilex opaca fosteri, 10 to 12 ins. 15

8 to 10 ins. 15

Ilex opaca Hume No. 2, 8 to 10 ins. 15

Ilicium anisatum (Anise), 8 to 10 ins. 15

Jasminum nudiflorum, 12 to 15 ins. 15

Juncaria pfitzeriana (green and blue), 8 to 10 ins. 15

Juniperus pfitzeriana aurea (gold tip), 8 to 10 ins. 15

Juniperus pfitzeriana compacta (Nick's compact), 8 to 10 ins. 15

Juniperus pfitzeriana glauca hetzii (blue vase-shaped), 8 to 10 ins. 15

Juniperus excelsa (Greek), 8 to 10 ins. 15

Koelreuteria paniculata (Golden Rain Tree), 10 to 15 ins. 10

Ligustrum chinense, 10 to 12 ins. 20

Ligustrum lucidum, 10 to 12 ins. 15

Ligustrum nepalense, 12 to 15 ins. 15

Magnolia grandiflora (2-yr. seedling), 10 to 12 ins. 15

Mahonia bealei (2-yr. seedling), 6 to 8 ins. 15

Nandina, 4 to 6 ins. 15

Osmunda cinnamomea aquifolium, 8 to 10 ins. 15

Osmunda foemina, 10 to 12 ins. 20

Osmunda fragrans, 10 to 12 ins. 20

Palm Cocos australis (3-yr.), 6 to 8 ins. 15

Photinia glabra, 8 to 10 ins. 15

Pinus pinea, 8 to 10 ins. 10

Pittosporum tobira, 8 to 10 ins. 15

Podocarpus neriifolia (Southern Yew), 8 to 10 ins. 15

Salix discolor (Pussy Willow), 2 to 3 ft. 15

Salix Weeping Willow, 3 to 4 ft. 15

Sasa, 2 to 4 ft. 10

Sasanqua Appleblossom, 12 to 15 ins. 20

Sasanqua Cleopatra, 12 to 15 ins. 20

Sasanqua rosea, 12 to 15 ins. 20

Sophora japonica, 18 to 24 ins. 15

10 to 12 ins. 15

Taxodium distichum (Bald Cypress), 15 to 18 ins. 15

Thrift, white, 3 to 6 ins. 15

Vitis cordata chevalieri, 6 to 8 ins. 15

Viburnum macrophyllum, 8 to 10 ins. 15

Viburnum odoratissimum, 8 to 10 ins. 15

Viburnum tinus, 8 to 10 ins. 15

TERMS: CASH WITH ORDER.

SHIPPING NOTICE: Above prices are F.O.B. Stovall, Ga. Lining-out stock is shipped bare-root and well-packed, with no packing charges. INCLUDE EXTRA MONEY ON SMALL ORDERS WHICH CAN GO PARCEL POST. Large orders are shipped express collect.

ALL NURSERY STOCK IS GROWN HERE AND IS GOVERNMENT INSPECTED.

CALVIN HARMAN NURSERY
Stovall, Ga.

GOLDEN GOOSE LINERS
For immediate delivery or for reservation. All plants from 2½-in. pots, grown in open beds, under field conditions and ready for field planting.

Each, 100 1000 \$10.00 \$0.08

Ilex crenata rotundifolia, 8 to 10 ins. 12 .10

Ilex crenata convexa, 6 to 8 ins. 12 .10

Ligustrum luc. compacta, 6 to 8 ins. 12 .10

Ilex opaca howardi, 8 to 10 ins. 14 .12

Ilex opaca East Palatka, 8 to 10 ins. 14 .12

8 to 10 ins. 14 .12

Euonymus radicans, 8 to 10 ins.08 .06

Our stock guaranteed 100 per cent satisfactory return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES
Poplar Pike, Germantown, Tenn.

ROOTED CUTTINGS, DOGWOOD, MAPLE

We have more than we need. Transplanted in soil in deep flats, \$35.00 per 100. Acer pal.

400 atrorpurpureum, 150 Bloodgood, 600 Bur-

undyace, 500 Oshio Beni, Cornus, 1200 fl. rubra, 150 kousa chinensis.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

LINING-OUT STOCK—Continued

LINING-OUT STOCK	
All plants bare-root. Average Evergreens, 6 to 8 ins. Shrubs, etc., 8 to 10 ins. or better.	
EVERGREENS	
Andorra Juniper	\$0.05
Armstrong Pfitzer Juniper	.08
Blue Hetz Juniper	.08
Burk Juniper, upright tree	.10
Cone Pfitzer Juniper	.08
Gold Tip Am. Arborvitae (tutea)	.12
Hill's Dk. Green Am. Arborvitae	.12
Hicks Yew	.10
Hillbush Juniper (virginiana)	.10
Pfitzer Juniper	.07
Procumbens Juniper	.10
Rosefield's Montana Green (scopulorum)	.30
Rosefield's Moonglow (scopulorum)	.30
Savin Juniper	.06
Taxus cuspidata	.10
Thomas Blue Creeper	.10
Von Ehron Juniper	.06

DECIDUOUS

Althaea Lucy, red	.07
Forsythia Arnold's Brilliant	.06
Forsythia Arnold's Dwarf	.06
Forsythia Arnold's Giant (semi-dwarf)	.04
Forsythia Beatrix Farrand	.04
Forsythia Lynwood Gold	.04
Forsythia Spring Glory	.04
Blue Spiraea (Caryopteris)	.05
Cornus Gold Twig	.07
Deutzias, gracilis and gr. rosea	.07
Euonymus alatus compactus	.10
Hydrangeas, A.G.	.10
Hypericum, Hidecote or kalmianum	.05
Honeysuckle, Zebel. Bush	.04
Honeysuckle, heckrottii, evbl. vine	.05
Honeysuckle, Lavey's Dwarf	.04
Privets, Golden Vicary, all yellow	.07
Prunus cistena, 1-yr. field tr., own-root	.20
Ribes alpinum	.08
Spiraea Anthony Waterer	.10
Spiraea macrothyrs, evbl. pink plumes	.10
Viburnum, op. ster. (Snowball)	.10
Viburnum trilobum (Am. Cranberry Bush)	.08
Viburnum tomentosum	.10
Weigela vanicicki	.07
Weigela, variegated leaf	.07
Willow, Giant French Pussy	.08
Willow, Green Nine Weep, cut back	.07
Willow, Blue Leaf Arctic and Purple Leaf	.06

BROADLEAVES

Euonymus coloratus	.04
Euonymus patens Flagpole, small leaf	.04
Euonymus patens Newport, medium leaf	.04
Euonymus patens Owen, small leaf	.04
Euonymus patens (radicans erectus), small leaf	.04
Euonymus patens Jewell, new dwarf, extra small leaf	.06
Euonymus radicans, upright (Sarcocie) ..	.07
Euonymus radicans vegetus ..	.07
Honeysuckle (vine), Texas (Purple Leaf)	.04
Honeysuckle (vine), Gold Net	.06
Pyracantha Kasan, heavy berried, hardier lalandi	.05
Pyracantha lalandi	.05
Pyracantha pauciflora, small shiny leaf	.05

PERENNIALS

Phlox Scarlet Flame, newest and brightest	.04
Less than 300 total order, 2c more per plant. Less than 50 of any variety, 4c more per plant.	
McININCH GREENHOUSES St. Joseph, Mo.	

HEAVY QUALITY LINERS

250 at the 1000 rate.

	Each,	Each,	per 100 per 1000
ILEX bullata, 3-yr.			
6 to 8 ins.....	\$0.35	\$0.30	
8 to 12 ins.....	.45	.40	
I. crenata, upright, select 3-yr. cuttings (grown from select plants)			
6 to 8 ins.....	.35	.30	
8 to 12 ins.....	.45	.40	
Ilex glabra			
8 to 12 ins.....	.40	.35	
PIERIS japonica, 3-yr., heavy			
8 to 12 ins.....	.75	.65	
PIERIS japonica, compacta			
6 to 8 ins.....	.70	...	
8 to 10 ins.....	.85	...	
TAXUS baccata repandens, 3-yr., TT			
6 to 8 ins.....	.55	.50	
8 to 10 ins.....	.70	.60	
T. cusp. capitata, 4-yr., field-grown, TTT (from cuttings)			
8 to 12 ins.....	.35	.30	
12 to 18 ins.....	.50	.40	
18 to 24 ins.....	.60	.50	
T. hicksii, 4-yr., heavy plants, sheared, TTT			
6 to 8 ins.....	.35	.30	
8 to 12 ins.....	.50	.40	
12 to 18 ins.....	.70	.60	

1-YR. BEDDED STOCK (Grown from heavy cuttings.)			
TAXUS capitata	\$0.20	\$0.17½	
TAXUS cuspidata	.17½	.16	
TAXUS columnaris	.22½	.20	
TAXUS hicksii	.17½	.16	
TAXUS hatfieldii	.17½	.16	

BULK'S NURSERIES, INC.
610 W. Montauk Babylon, L. I., N. Y.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

CALIFORNIA'S FINEST
2½-IN. LINING-OUT STOCK

	Per 100
Abelia grandiflora	\$16.00
Acanthus mollis	16.00
Agapanthus africanus	16.00
Aralia sieboldii	15.00
Asplenium nidus	18.00
Bignonia violacea	18.00
Bougainvillea Barbara Karst	18.00
Callistemon lanceolatus	17.00
Callistemon viminalis	15.00
Ceratonia siliqua	18.00
Coccinia laurifolia	18.00
Dracaena indivisa	16.00
Euonymus Silver King	16.00
Ficus nitida	18.00
Fraxinus uhdei	15.00
Gardenia veitchii	16.00
Grevillea robusta	15.00
Hibiscus Agnes Gault	16.00
Hibiscus Brabant	16.00
Jasminum magnificum	20.00
Juniperus chin. pfitzeriana	18.00
Lagerstroemia indica rosea	18.00
Lantana Christine	14.00
Libocedrus decurrens	16.00
Liquidambar styraciflua	15.00
Magnolia grandiflora	16.00
Myrsine africana	16.00
Myrtus communis compacta	16.00
Passiflora pfordti	18.00
Philodendron selloum	18.00
Phormium tenax	15.00
Pinus canariensis	16.00
Pinus pinea	16.00
Pinus radiata	16.00
Pinus thunbergii	16.00
Pittosporum tobira variegata	15.00
Podocarpus macrophylla	15.00
Punica granatum nana	15.00
Quercus ilex	18.00
Scinthus molle	15.00
Scinthus terebinthifolia	15.00
Ulmus sempervirens	20.00

2½-IN. ROSE POTS

Bauhinia purpurea	\$18.00
Caryota mitis (Fish-tail Palm)	25.00
Cedrus deodara	20.00
Chamaerops excelsa	25.00
Cycas revoluta	65.00
Dracaena draco	18.00
Ficus benjamina	20.00
Livistona chinensis	5.00
Paurotis Wrightii Palm	50.00
Phoenix canariensis	20.00
Seaforthia elegans	25.00
Strelitzia nicolai	25.00
Strelitzia reginae	25.00
Washingtonia robusta	18.00

FREE PACKING

WRITE FOR OUR PRICE LIST
OLLE OLSSON NURSERY, INC.

2154 Peck Rd. Monrovia, Calif.

LINING-OUT STOCK

	Each
1300 Arborvitae, pyramidal	
2-yr., X	\$.035
2500 Pfitzer Juniper	
2-yr., X	.35
900 Pfitzer Juniper	
3-yr., X	.45
1700 Hetz Juniper	
2-yr., X	.35
900 Andorra Juniper	
2-yr., X	.35
600 Keteleer Juniper (own-root)	
2-yr., X	.45
500 Burk Juniper (own-root)	
3-yr., X	.55
2500 Norway Spruce	
5-yr., X	.35
600 Norway Spruce	
6-yr., X	.40
700 Colorado Spruce	
5-yr., X	.35
3400 Hunnewell Yew	
3-yr., X	.35
1200 Hunnewell Yew	
4-yr., X	.45
2500 Spreading Yew	
3-yr., X	.35
1800 Hicks Yew	
3-yr., X	.40
700 Browns Yew	
4-yr., X	.50
1500 Browns Yew	
3-yr., X	.40
400 Euonymus erectus	
4-yr., XX	.50
1000 Assorted Day Lilies (named)	
25	
2000 Peony Felix Crousse	
25	

Will consider exchange for finished stock. Send for our want list. While you're at it, send for our complete wholesale list of liners and finished stock. Better yet, stop at our grounds to inspect some of the finest quality liners and finished stock. We are located 12 miles S.W. of Kewanee on Route 17 in Stark County.

THE HOME NURSERY

C. S. Ingels & Sons
Lafayette, Ill.
Phone 12R2

LINERS OF THE BETTER KINDS

Novelties and rare items.

Write for price list.

GULF STREAM NURSERY, INC.
Wachapreague, Va.

HEAVY 3-YR., TRANSPLANTED
SHEARED LINERS

Per 100

Azalea mollis	6 to 8 ins.	\$20.00
Taxus andersoni	8 to 10 ins.	30.00
Taxus cuspidata	8 to 10 ins.	25.00
Taxus cuspidata	10 to 12 ins.	27.00

2-YR. TRANSPLANTED,
OPEN FIELD BEDS

Per 100

Buxus sempervirens	6 to 8 ins.	18.00
Ilex conv. hetzi	4 to 6 ins.	18.00
Ilex conv. hetzi	6 to 8 ins.	22.00
Juniper. Andorra	6 to 8 ins.	20.00
Juniper. gl.	6 to 8 ins.	25.00

Juniperus sabina	8 to 10 ins.	20.00
Taxus andersoni	8 to 10 ins.	25.00
Taxus cuspidata	8 to 10 ins.	22.00
Taxus cuspidata	10 to 12 ins.	25.00
Taxus cuspidata	12 to 14 ins.	27.00

Taxus cuspidata	8 to 10 ins.	18.00
Taxus cuspidata	10 to 12 ins.	20.00
Taxus cuspidata	12 to 14 ins.	22.00
Taxus cuspidata	14 to 16 ins.	24.00
Taxus cuspidata	16 to 18 ins.	26.00

Taxus cuspidata	18 to 20 ins.	28.00
Taxus cuspidata	20 to 22 ins.	30.00
Taxus cuspidata	22 to 24 ins.	32.00
Taxus cuspidata	24 to 26 ins.	34.00
Taxus cuspidata	26 to 28 ins.	36.00

LINCOLN NURSERIES

R. F. D. 2 Grand Rapids 4, Mich.

LINING-OUT STOCK

READY NOW

Silver Maple, improved	5 to 6 ft.	\$1.00
6 to 7 ft.		1.25
7 to 8 ft.		1.50
Pyramidal Silver Maple, 5 to 6 ft.		1.00
6 to 7 ft.		1.25
7 to 8 ft.		1.50
Bebe Cutleaf Silver Maple, 5 to 6 ft.		1.00
6 to 7 ft.		1.25
Winter King and LaValle Hawthorns, whips, 5 to 6 ft.		1.00
6 to 7 ft.		1.25
7 to 8 ft.		1.50
Sweet Gum, 5 to 6 ft.		2.00
6 to 7 ft.		2.25
7 to 8 ft.		2.50
FLOWERING CRAB APPLES		Over 50 varieties of grafts and buds.

1-yr.		\$0.50
2-yr.		1.00
2-yr. plants are well-branched, 4 to 6-ft. trees.		

PIN OAK SEEDLINGS

Nursery-grown in peat beds, root pruned.

2-yr., 18 to 24 ins.		\$5.00 per 1000
30 to 36 ins.		10.00 per 1000
All material F.O.B. Warsaw, Ky.		

</div

MAGNOLIAS**MAGNOLIA GRANDIFLORA**

2 1/2-in. pots.	12c
8 to 10 ins.	12c
10 to 16 ins.	16c
16 to 20 ins.	18c

Qt. cans

12 to 16 ins.	20c
20 to 30 ins.	25c
30 to 36 ins.	30c

B&B stock

2 to 3 ft.	\$1.50
3 to 4 ft.	2.00
4 to 5 ft.	3.00
5 to 6 ft.	4.00
6 to 7 ft.	5.25
7 to 8 ft.	6.75

The above liners were grown in the open and are hardy. The B&B stock will be wrapped in rot-proof burlap and string if so desired. Plant root pruned.

BIG RIVER NURSERY, DUNDEE, MISS.
Phone 572-R4, Tunica, Miss.

Magnolia grandiflora, beautiful old-fashioned evergreen tree. Stocky plants, 10 to 15 ins., \$15.00 per 100, \$120.00 per 1000; 12 to 18 ins., \$17.50 per 100.

Tidwell Nurseries, Greenville, Ga.

MAPLES**ACER PALMATUM ATROPURPUREUM**

(Dark Red Japanese Maple) Each, 100 Selected types, strong 2-yr. grafts \$1.50 Selected types, 3-yr. grafts, cutback 2.00 Bloodgood (very dark red Japanese Maple), very scarce, strong 2-yr. grafts 1.75

Oshiu Beni (light red Japanese Maple), strong 2-yr. grafts 1.50 Oshiu Beni, 3-yr. grafts, cutback 2.00

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

MAPLES**COLLECTED ACER**

RUBRUM AND SACCHARUM
from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

MYRTLE**HARDY MYRTLE (VINCA MINOR)**

20 to 30 leads, \$8.00 per 100.
500 to 2500, \$60.00 per 1000.
2500 to 5000, \$50.00 per 1000.
Cash or established credit.

VAUGHAN'S NURSERY
15910 Cleveland Rd. Granger, Ind.
Phone South Bend CE 3-3318

ORANGE TREES**MINIATURE ORANGE TREES**

CALAMONDIN
6-in. plastic pots, 18 to 24 ins. tall, with multiple fruit, shipped with fruit green. Fruit will mature and color in 3 to 4 weeks after receipt of shipment.

\$1.75 each packed 9 per carton.
Immediate delivery to all states except Calif., Ariz., Tex. and La. These are beautiful shaped plants that SELL on sight.

YOSTERS NURSERIES & GHSES., INC.
R. 2, Box 247 Miami 57, Fla.

Surplus Stock

can be easily and quickly turned into
Cash

by listing it in the
American Nurseryman Classified Ads.

PACHYSANDRAS**400,000****PACHYSANDRA TERMINALIS**

Strong rooted cuttings, ready for shipment now.

\$38.00 per 1000;
\$35.00 per 1000 for 5000 lots.

Quantity buyers, write for prices.

Check with order. Free samples.

TOWN & COUNTRY NURSERY
4202 Fordleigh Rd. Baltimore 15, Md.
Phone RO 4-2179

PACHYSANDRAS

Shipped now or reserved for you.
Foliage fed. Greenhouse-grown.
Rooted in clean, white silica sand.

\$35.00 per 1000.

Write for our complete descriptive list of ivies and ground covers.

THE JOSEPH F. MARTIN CO.

Painesville, O.

PACHYSANDRA TERMINALIS

Per 100 Per 1000
\$ 5.00 \$ 45.00
3000 or more lots 42.50
2-yr. field-grown 8.50
2 1/2-in. pot-grown 12.00

HANSEN BROS. NURSERIES, INC.

Phone 215 MO 4-3923 Narberth, Pa.

PACHYSANDRAS

1-yr.-old, frame-grown, well-rooted cuttings, \$5.50 per 100, \$43.00 per 1000; \$40.00 per 1000 for 5000 or more. Order now for immediate delivery.

RUSSELL GUTHRIE
123 Franklin St. Tarrytown, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000. No C.O.D. orders.

DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$6.50 per 100, \$53.00 per 1000; \$50.00 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRA TERMINALIS

1-yr. field-grown, \$6.00 per 1000.
HILLCREST GREENHOUSES

Miller Park Franklin, Pa.

PEONIES**PEONIES**

Strong 3 to 5-eye divisions, from young plants. Packing free for cash with order, otherwise at cost. 25 or more of a variety takes the 100 rate.

DOUBLE FLOWERING

Baroness Schroeder, flesh to white Each, 10 100

Canari, sulphur to pure white 40 .35

Duc de Cazes, carmine-red to rose 45 .40

Duchesse de Nemours, ivory-white 45 .40

Duchesse d' Orleans, soft pink 35 .30

Duke of Wellington, pale white 45 .40

Edulis Superba, excellent deep pk. 35 .30

Felix Crousse, ruby-red 45 .40

Festiva Maxima, white, center-flecked red 45 .40

Frances Willard, blush white 45 .40

Francois Ortegal, crimson 35 .30

Karl Rosenfeld, velvety dark crimson 45 .40

Le Cygne, excellent pure white 1.75 1.35

Liliac, vivid, very large flesh to white 60 .50

Longfellow, bright crimson 60 .50

Mme. de Verneville, fragrant wh. 40 .35

Martha Bullock, old rose pink 80 .75

Mary Brand, dark clear crimson 70 .60

Mons. Jules Elle, large silvery pk. 45 .40

Mrs. F. D. Roosevelt, coral-pink 2.50 .20

Ozark Beauty, compact radiant pk. 40 .35

Philippe Rivoire, dark crimson 90 .85

Queen Emma, satiny light pink 35 .30

Sarah Bernhardt, appleblossom-pink 45 .40

Therese, carnation-pink to yellow 75 .60

Venus, large, excellent pink 45 .40

Walter Faxon, excellent bright rose 50 .45

PEONIES TO COLOR AND MIXED

Pink to color, not named 30 .25

Red to color, not named 30 .25

White to color, not named 35 .30

Mixed Peonies, grown mixed 25 .20

SINGLE PEONIES

Krinkled White, well known ruffled white 1.50 1.35

Sea Shell, large bright pink 80 .75

Send for our complete list of Peonies, Irises, Day Lilies and packaged Peonies.

SARCOXIE NURSERIES
Wild Bros. Nursery Co.

Phone KI 8-3512 Sarcoxie, Mo.

PEONIES

Healthy plants, from fields, grown on new land and from which no flowers are cut. Each, 10 100

Dixie \$0.95 \$0.75

Hansina Brand 1.00 1.75

Kansas 1.00 1.75

Mme. Edile Debataene 75 .50

Mark Twain 1.00 .90

Matilda Lewis 1.25 1.00

Mattie La Fuze 1.00 .90

Miss America 1.00 .90

Mother's Day 60 .50

Nick Shaylor 1.50 1.00

Philippe Rivoire 1.00 .75

Krinkled White 1.25 1.00

Nippon Beauty 90 .75

These are just a few varieties taken from our wholesale price list, which may be had upon request. We have a good stock of many of the newer varieties, some in working charge.

CHARLES KLEHM & SON NURSERY
2 E. Algonquin Rd.

Arlington Heights, Ill.

Phone HE 7-2830

PEONIES

Adolphe Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex, Duff, Marie Leinoine, Mons. Jules Elle, Reine Hortense.

3-yr.-old, whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

PEONIES

Large 3 to 5-eye divisions, from our northern nursery at Geneva, N. Y. Quality better than ever. Write for complete list and our outstanding list of brilliant new hybrid Peonies. Packing extra at cost.

Each, per 1000

Baroness Schroeder38

Cornelia Shaylor38

Festiva Maxima32 1/2

Felix Crousse26

Hespinala Brand70

Mrs. J. V. Edlund65

Mystic Gentry47 1/2

Reine Hortense27 1/2

Victory42 1/2

Red30

White23 1/2

Pink21 1/2

Successor to Styer's Nurseries

J. FRANKLIN STYER

West Chester, Pa.

R. D. 5.

Tree Peonies, herbaceous Peonies,

Atha Gardens, West Liberty 6, O.

PHLOX

HARDY PHLOX

For new sparkling color, try these new Symons-Jeune varieties. Fine growing habit and healthy, clean foliage.

DODO HANBURY FORBES, magnificent clear pink

EVEREST, dazzling white, light pink eye

FAIRY'S PETTICOAT, lively shade of soft mulberry-rose

GATTY, brilliant cherry-red

LILAC TIME, lovely clear lilac

VILLAGE WINE, a new shade of rich red

COOL OF THE EVENING, slate lavender-blue

OLIVE WELLS DURANT, creamy salmon-rose, carmine eye

Send for complete list of hardy perennials.

\$3.00 for 10, \$25.00 per 100.

Special collection, 5 each of 8 varieties, \$10.00.

SUNNY BORDER NURSERIES

Kensington, Conn.

PHLOX SUBULATA

(Creeping Phlox)

Admiration, cameo-pink with white eye

Alba, an excellent pure white

Astro, deep orchid-rose

Blue Hills, attractive medium blue

Butterfly, lilac blush, showy purple eye

Crimson Beauty, brilliant cyclamen-red

Red Wing, finest large flowering red

Sensation, bright pink with red eye

Transplants, \$9.50 per 100, \$90.00 per 1000.

Liners, \$5.00 per 100, \$45.00 per 1000.

250 or more of same variety at 1000 rate.

Prices are prepaid, we pay transportation.

Terms: Cash with order.

TANGLEWOOD FARM

P. O. Box 336-N Clinton, S. C.

SPECIAL SURPLUS PHLOX OFFER

We have an extra large crop of 2-YEAR upright Phlox, once transplanted. These will average 8 eyes or better. Excellent for potting.

Rather than carry them over winter, we offer them for immediate delivery, at 15c.

or 13 1/2c for 250 or more of a variety. List on request. Satisfaction guaranteed. Pictures available.

A. M. GROOTENDORST

Benton Harbor, Mich.

Phone WA 5-2535

PHLOX, ALL SAND-GROWN

BOTH UPRIGHT AND SUBULATA.

ALL VARIETIES AND COLORS.

WRITE FOR LIST. FALL AND

SPRING DELIVERY.

RICHARDS GARDENS

Plainwell, Mich.

Phlox subulata, beautiful evergreen border plant, very hardy, in bright red, rose-pink, pure white and blue; large, strong field-grown plants, \$8.00 per 100, \$60.00 per 1000.

Fast service, fresh delivery.

Tidwell Nurseries, Greenville, Ga.

PIERIS**ANDROMEDA**

(Pieris japonica)

One of the most beautiful broad-leaved Evergreens.

Per 100 Per 1000

2 to 2 ins. \$ 6.00 \$ 50.00

2 to 3 ins. T. 8.00 75.00

4 to 6 ins. T. 15.00 140.00

6 to 8 ins. TT. 20.00 190.00

300 at 1000 rate. Shipped prepaid to your nursery.

PLANE VIEW NURSERY

1355 W. Main Rd., Rt. 114 Newport, R. I.

Small Ads Do Great Things in the

American Nurseryman Classified Section.

PRIMULAS**GIANT PACIFIC HYBRID PRIMULAS**

(Polyanthas)

For perennials. For pot plants.

Blue, pink, red, yellow-bronze.

2 1/2-in. peat pots, 50 plants per carton,

\$15.00 per 100, \$70.00 per 500.

PRIVET

Thousands of Amur River North Privet.	Per 100 Per 1000
18 to 24 ins.	\$3.00 \$25.00
2 to 3 ft.	4.00 30.00
3 to 4 ft.	5.00 40.00

3 Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

CHINESE EVERGREEN PRIVET HEDGE

(Ligustrum sinense)

Available in various sizes and quantities. Write for quotations.

WAYNESBORO NURSERIES

Waynesboro, Va.

Let us supply your Amur River Privet needs. An extremely hardy, desirable shrub, 18 to 24 ins., \$4.00 per 100; 2 to 3 ft., \$5.00 per 100. Any amount, all sizes. Tidwell Nurseries, Greenville, Ga.

RHODODENDRONS**RHODODENDRONS**

5 reasons why you should order your needs from us:

1. All own-root from cuttings
2. All field **BED**-grown, pinched and tended individually
3. All large and many small plants **BUDDED**
4. All orders for spring lifted and stored under protection
5. All **Jap.** beetle certified.

"Nothing beats a Wells-grown plant"

WELLS NURSERY

Red Bank, N. J.

10,000 Rhododendrons, red and white; cutting-grown, 4-yr., well-budded, \$350.00 per 100; 30,000 red and white varieties, 2-yr. liners, \$150.00 per 100. Kordus Nursery, Cranbury Rd., Rt. 635, Jamesburg, N. J. Opposite Phelps Dodge Corp., between exit 8 and 9 on N. J. turnpike.

HYBRID RHODODENDRONS

Excellent quality, for landscaping and garden centers.

PARMENTIER'S ROSES

Bayport, L. I., N. Y.

Phone Bayport 8-0811.

RHODODENDRONS

Hardy, hybrid seedlings, liners.

Write for prices and sizes.

THE LEVICK NURSERY CO.

R. F. D. 3 Bridgeton, N. J.

HARDY IRONCLADS AS PARENTS

Seed, seedlings, transplants; pots, flats, ready now. Own-root hybrids for spring.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

RHUS**ROSES****FOR YOUR CUSTOMERS' GARDENS**

Complete list featuring Christian Dior and other All-America Winners. Two-year field-grown plants, produced on the hardest of understocks. Modern varieties and quality the public knows and buys. Fine for potting or packaging.

Write today for FREE COLOR POSTER and complete wholesale catalog.

THE CONARD-PYLE CO.

West Grove 220, Pa.

FINEST QUALITY ROSES SINCE 1923

Completed selection of

patent and non-patent varieties.

Bare root. Packaged. Potted.

Inquiries welcome.

Write for list, Dept. 11.

QUALITY SERVICE, PRICE.

VERMAY NURSERY CO.

Homer W. Eikner, Owner

Dallas Hwy. Ph. LY 4-4432 Tyler, Tex.

TREE ROSES

Select No. 1 grade standards available subject to prior sale, including such varieties as Christian Dior, John S. Armstrong, Golden Slippers, Kings Ransom, Chrysler Imperial, Peace, Pink Peace, Sterling Silver, Kordes Perfecta, etc. Write for catalog and complete listing.

GERARD K. KLYN, INC.

Mentor, O.

ROSES

Profit-wise nurseries, garden centers and mail-order firms depend on ARP ROSES. Glittering packs to display. Bare-root for container or landscape. All-America Selections. Catalog and wholesale price list.

ARP NURSERY CO.

Box 3338-A Tyler, Tex.

Rosebushes, 100 non-patented and 57 patented varieties. Bare-root and packaged. Old and new favorites that will please your customers. Dusted and sprayed weekly for the finest quality plants. Send for free list and place your order early while list is complete. Tate Nursery, R. 3, Tyler, Tex.

LONE STAR'S**FINEST CROP ROSEBUSHES**

Order now for immediate shipment or book your order for shipment up to April 15. Our Roses are of excellent quality. TOP GRADE, FIELD FRESH. MANZATE SPRAYED, budded on Multiflora root stock with well-branched GREEN TOP and FIBROUS ROOT SYSTEM.

NON-PATENTED BARE-ROOT PRICES.

GRADE	10-249	250-999	1000 up
Jumbo	\$0.52	\$0.48	\$0.45
No. 1	42	.38	.35
No. 1½	32	.30	.25
No. 2	25	.22	.20

NO CHARGE FOR PACKING (multi-wall corrugated cartons with polyethylene lining). ORDER IN MULTIPLES OF 10 OF A VARIETY.

CUSTOM PACKAGED PRICES

GRADE	10-249	250-999	1000 up
Jumbo	\$0.52	\$0.48	\$0.45
No. 1	42	.38	.35
No. 1½	32	.30	.25
No. 2	25	.22	.20

Ask for quantity prices. We cut the tops back to about 10 ins. for shipping, unless you state otherwise. Prices are F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent. Available after October 15.

BROOKVILLE NURSERIES

Box 53, Northern Blvd., Glen Head, L. I., N. Y.

ROSE STOCK**MULTIFLORA ROSE**

For living fence, conservation and budding understock. Hardy northern-grown plants, nematode-free. Our sandy loam produces the finest root system. Our high quality is well known.

Caliper and approximate height Per 1000

2 to 3 mm., 8 to 15 ins. \$12.50

3 to 8 mm., 15 to 24 ins. 22.50

3 to 5 mm., 12 to 18 ins. 19.25

4 to 6 mm., 15 to 24 ins. 27.50

Ask for quantity prices. We cut the tops back to about 10 ins. for shipping, unless you state otherwise. Prices are F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent. Available after October 15.

THORNLESS NURSERIES

Box 53, Northern Blvd., Glen Head, L. I., N. Y.

MULTIFLORA ROSE SEEDLINGS

Matured stock of upright growing multiflora japonica, from our own selected seedlings for living fences and conservation plantings.

Hardy, northern-grown, in treated soils for your protection.

2 to 3 mm. \$12.50 per 1000

3 to 5 mm. 19.00 per 1000

Packing FREE f.o.b. West Grove. Minimum order 1000.

Write for quantity prices and complete wholesale catalog.

THE CONARD-PYLE CO.

West Grove 220, Pa.

THORNY ROSA MULTIFLORA

2 to 3 mm. \$11.00 per 1000

3 to 6 mm. 16.00 per 1000

6 to 12 mm. 30.00 per 1000

No packing charge. F.O.B. Mt. Vernon, Ill.

Write for quotations on larger amounts.

MESTEL NURSERY

Route 5 Mt. Vernon, Ill.

SEEDS**PEACH SEEDS, NEW CROP**

Carefully handled, insuring high germination. 4000 up per bushel, 30 bu. up, \$2.50 per bu.; 10 to 30 bu., \$2.75 per bu.; 2 to 10 bu., \$3.25 per bu.

WAYNESBORO NURSERIES

Waynesboro, Va.

BLACK HILLS PONDEROSA PINE SEED

\$2.50 per lb.

Sample upon request.

MRS. EARL BAKER

Custer S. Dak.

Box 53

CONCOLOR FIR SEED

1959 crop, \$3.65 per lb., postpaid.

10 lbs. or more, \$3.25 per lb.

ZENTZ SEED CO.

Silver Cliff, Colo.

Juniper seed, virginiana, Platt type Red Cedar (Neb.), cleaned and floated, \$3.00 per lb.; scopolum (Colo.), \$3.00 per lb.

Forestry Seed Service, Cuba, Kan.

SHRUBS AND TREES**ABELIA GRANDIFLORA**

12 to 18-in. liners, field-grown \$17.50

18 to 24-in. liners, field-grown 22.50

24 to 30-in. B&B, field-grown 60.00

2 to 3 ft., B&B, field-grown 70.00

3 to 4 ft., B&B, field-grown 100.00

All the above are heavy sheared, well-branched from ground up. F.O.B.

SPIRAEA REEVESIANA (DOUBLE)

12 to 18-in. liners, field-grown \$17.50

18 to 24-in. liners, field-grown 22.50

24 to 30-in. B&B, field-grown 60.00

2 to 3 ft., B&B, field-grown 70.00

All the above are heavy sheared, well-branched from ground up. F.O.B.

NANDINA DOMESTICA

18 to 24 ins., B&B, field-grown \$60.00

2 to 3 ft., B&B, field-grown 80.00

All the above are low and compact with plenty of foliage. O.D.

EVERGREENS

Gardenia fortunei

Gardenia Mystery

Ligustrum luc. compactum

Ligustrum repandens

Ligustrum macrophyllum

18 to 24 ins., B&B, field-grown \$70.00

2 to 3 ft., B&B, field-grown 90.00

All the above are heavy sheared, well-branched from ground up. F.O.B.

ATMORE NURSERY CO., ATMORE, ALA.**SHADE TREES**

Large assortment varieties and sizes. Ask for complete wholesale price list.

WAYNESBORO NURSERIES

Waynesboro, Va.

**PRICES REDUCED, MUST SELL
IN PATH OF NEW RESERVOIR**
Rooted cuttings, 1-yr. in field beds.
Per 100 Per 1000

Buxus sempervirens,	8.00	70.00	
Chamaecyparis cyano viridis,	4 ins.	12.00	
Chamaecyparis lutescens,	4 to 6 ins.	8.00 70.00	
Ilex bullata, 4 to 6 ins.	8.00	70.00	
Juniper, Anderson, 4 to 6 ins.	8.00	70.00	
Juniperus hibernica, 4 to 6 ins.	8.00	70.00	
Juniperus hetzii, 4 to 6 ins.	8.00	70.00	
Juniperus stricta, 4 to 6 ins.	12.00	100.00	
Juniperus communis aurea,	4 to 6 ins.	12.00	
Pachysandra	4.00	35.00	
Pyracantha lalandii, 4 to 8 ins.	10.00	90.00	
Pieris japonica, 4 to 8 ins.	8.00	75.00	
Retinopsis plumosa aurea,	6 to 8 ins.	8.00 70.00	
Retinopsis plumosa, 6 to 8 ins.	8.00	70.00	
Retinopsis squarrosa veitchii,	5 to 8 ins.	8.00 70.00	
Taxus brevifolia, 4 to 6 ins.	8.00	70.00	
Taxus brownii, 4 to 6 ins.	8.00	70.00	
Taxus brevifolia, 4 to 6 ins.	8.00	70.00	
Taxus cuspidata, 4 to 6 ins.	8.00	70.00	
Taxus cuspidata F&F compacta,	4 to 6 ins.	10.00 90.00	
Taxus hatfieldii, 4 to 6 ins.	8.00	70.00	
Taxus hicksii, 4 to 6 ins.	8.00	70.00	
Taxus intermedia, 4 to 6 ins.	8.00	70.00	
Taxus Moon's columnaris,	4 to 6 ins.	8.00 70.00	
Taxus cuspidata, 6 to 8 ins.	12.00	100.00	
Thuya George Peabody, 5 to 8 ins.	8.00	70.00	
Thuya globosa, 5 to 8 ins.	8.00	70.00	
Thuya Geo. Peabody, 5 to 8 ins.	8.00	70.00	
Rooted cuttings, 2-yr. in field beds.			
Juniperus hetzii, 8 to 12 ins.	12.00	100.00	
Retinopsis pisifera aurea,	8 to 12 ins.	12.00 100.00	
Retinopsis plumosa,	8 to 12 ins.	12.00 100.00	
Pieris japonica, 6 to 10 ins.	12.00	100.00	
Taxus cuspidata, 6 to 8 ins.	12.00	100.00	
Taxus intermedia, 6 to 8 ins.	12.00	100.00	
Taxus brownii, 6 to 8 ins.	12.00	100.00	
Taxus cuspidata, 6 to 8 ins.	12.00	100.00	
Taxus brevifolia, 6 to 8 ins.	12.00	100.00	
Taxus cuspidata, 6 to 8 ins.	12.00	100.00	
Retinopsis plumosa aurea,	8 to 12 ins.	12.00 100.00	
Thuya George Peabody,	6 to 10 ins.	12.00 100.00	
Taxus cuspidata F&F,	6 to 8 ins.	12.00 100.00	
Taxus repandens, 6 to 8 ins.	15.00	120.00	
1-yr. seedlings.			
Black Locust (<i>Robinia pseudo-</i> <i>acacia</i>), 12 to 18 ins.	6.00	50.00	
Taxus capitata, 3 to 5 ins.	2.00	15.00	
Chinese Chestnut, 12 to 18 ins.	8.00	70.00	
Fagus sylvatica, 6 to 10 ins.	10.00	80.00	
2-yr. seedlings.			
Acer palmatum, 6 to 10 ins.	8.00	70.00	
Ilex crenata, 3 to 6 ins.	5.00	40.00	
Douglas Fir, 4 to 8 ins.	5.00	40.00	
Black Hills Spruce, 3 to 4 ins.	5.00	40.00	
Chinese Chestnut, 18 to 30 ins.	10.00	90.00	
Pinus densiflora, 5 to 8 ins.	3.00	25.00	
Picea pungens glauca,	3 to 5 ins.	3.50	25.00
Picea (White Spruce),	3 to 5 ins.	3.50	25.00
Picea strobus, 4 to 6 ins.	3.50	25.00	
Pinus strobus, 4 to 5 ins.	3.50	25.00	
Thuja occidentalis, 4 to 6 ins.	3.50	25.00	
Taxus capitata, 4 to 8 ins.	4.00	30.00	
Picea excelsa, 3 to 6 ins.	3.50	25.00	
Concolor Fir, 3 to 5 ins.	5.00	40.00	
Pinus nigra, 6 to 10.	5.00	40.00	
Pinyon Pine, 4 to 6 ins.	6.00	...	
3-yr. seedlings.			
Balsam Fir, 4 to 6 ins.	4.00	30.00	
Picea (White Spruce),	4 to 8 ins.	4.00	30.00
Pinus mughus (Tyrolean),	3 to 5 ins.	6.00	50.00
Tsuga diversifolia, 4 to 6 ins.	7.00	60.00	
Concolor Fir, 4 to 6 ins.	5.00	40.00	
Taxus canadensis, 6 to 10 ins.	8.00	75.00	
In large quantity, they may be had for \$50.00 per 1000.			
3-yr. seedlings, transplanted.			
Taxus canadensis, 6 to 8 ins.	10.00	90.00	
Tsuga canadensis, 4 to 7 ins.	8.00	70.00	
Pinus strobus, 4 to 6 ins.	7.00	60.00	
Picea engelmanni, 3 to 6 ins.	6.00	50.00	
Pinus rubens, 3 to 6 ins.	7.00	60.00	
Picea pungens glauca,	4 to 6 ins.	8.00	70.00
Thuya occidentalis, 5 to 8 ins.	7.00	60.00	
Black Hills Spruce, 3 to 4 ins.	7.00	60.00	
4-yr. transplanted.			
Douglas Fir, 8 to 12 ins.	8.00	70.00	
Taxus canadensis, 8 to 12 ins.	15.00	125.00	
Leucothoe catesbeiae,	10 to 14 ins.	35.00	...
Picea engelmanni, 6 to 8 ins.	8.00	70.00	
Picea excelsa, 6 to 12 ins.	12.00	100.00	
Picea pungens glauca,	6 to 10 ins.	12.00	100.00
Pinus mughus (Tyrolean),	15.00	...	
Thuya occidentalis, 8 to 12 ins.	12.00	...	
Tsuga canadensis, 5 to 8 ins.	10.00	90.00	
Tsuga canadensis, 8 to 10 ins.	15.00	140.00	
Tsuga canadensis, 10 to 12 ins.	20.00	190.00	
5-yr. transplanted.			
Concolor Fir, 10 to 12 ins.	15.00	130.00	
Tsuga canadensis, 12 to 15 ins.	30.00	250.00	
Picea pungens glauca,	12 to 18 ins.	20.00	140.00
Picea (White Spruce),	12 to 18 ins.	10.00	80.00

VAN DINE NURSERY
Berdan Ave. Wayne, N. J.

EVERGREEN SEEDLINGS

100 1000

SCOTCH PINE (French or Spanish strain)	10,000	1000
2-yr. seedlings (2-0), 2 to 4 ins....	\$ 3	\$ 15
3-yr. seedlings (3-0), 10 to 18 ins...	9	45
4-yr. transplants, grafting size....	15	75
MUGHO PINE		
3-yr. seedlings (4-0), 4 to 8 ins....	8	40
4-yr. transplants (4-0), 4 to 8 ins....	10	50
JAPANESE BLACK PINE		
2-yr. seedlings (2-0), 4 to 8 ins....	9	45
3-yr. seedlings (3-0), 12 to 18 ins.	12	60
WHITE SPRUCE		
3-yr. seedlings (3-0), 8 to 14 ins....	8	40
5-yr. transplants, grafting size....	20	100
NORWAY SPRUCE		
3-yr. seedlings (3-0), 10 to 18 ins....	9	45
5-yr. transplants, grafting size....	25	125
COLORADO BLUE SPRUCE		
3-yr. seedlings (3-0), 6 to 12 ins....	11	55
5-yr. transplants (3-2), 8 to 14 ins.	35	175
CANADIAN HEMLOCK		
3-yr. seedlings (3-0), 6 to 10 ins....	16	80
CONCOLOR FIR		
3-yr. seedlings (3-0), 6 to 10 ins....	8	40
4-yr. seedlings (4-0), 10 to 16 ins....	11	55
FRASER FIR		
2-yr. seedlings (2-0), 2 to 4 ins....	8	40
3-yr. seedlings (3-0), 4 to 8 ins....	12	60
BALSAM FIR		
3-yr. seedlings (3-0), 3 to 5 ins....	8	40
4-yr. transplants (3-1), 4 to 8 ins....	18	90
BARBERRIES, GREEN		
2-yr. seedlings (2-0), 6 to 12 ins....	8	40
2-yr. seedlings (2-0), 12 to 18 ins.	10	50
WHITE FLOWERING DOGWOOD		
Seedlings, 4 to 8 ins....	7	35
Seedlings, 12 to 24 ins.	12	60
MUSSER FORESTS, INC.		
Box 16VC	Indiana, Pa.	

WELL-GROWN SHADE AND FLOWERING TREES

All material B&B.

American Beech, 3-in.	\$70.00
Tulip Tree, 1½-in.	12.00
2-in.	16.50
American Sycamore, 2-in.	18.00
2½-in.	24.00
3-in.	31.50
Kentucky Coffee Tree, 1¼-in.	8.50
½-in.	20.00
2½-in.	26.00
3-in.	33.50
Littleleaf Linden, 3-in.	42.00
¾-in.	50.00
4-in.	57.00
Sunburst Locust, 3-in.	80.00
Thornless Honey Locust, 2-in.	21.00
2½-in.	29.00
Malus xanthocarpa, 1½-in.	10.00
Malus floribunda, 2 to 3-in. specimens,	
6 to 8 ft. spread	29.00
Malus, Hopa, 1½-in.	9.00
1¾-in.	12.00
2-in.	14.00
Malus, Almey, 1½-in.	9.00
1¾-in.	12.00
Malus sargentii, 4 to 5 ft.	15.50
5 to 6 ft.	18.75
White Redbud, 3 to 4 ft.	10.00
4 to 5 ft.	14.00
5 to 6 ft.	17.50
6 to 7 ft.	25.00
Euonymus vegetans, 4 to 5 ft., heavy	14.00
specimens, 22-in. ball	
BRISTOW'S NURSERY	
6909 Garden Rd.	Maumee, O.
BRANCHED SHADE TREES	
Heavy liners and finished trees.	
Per 100 ft 1000	
Pin and Red Oak, root pruned	
18 to 24 ins.	\$ 15.00
2 to 3 ft.	22.00
3 to 4 ft.	30.00
4 to 6 ft.	40.00
Thornless Honey Locust,	
branched and root pruned	
3 to 4 ft.	40.00
4 to 5 ft.	50.00
5 to 6 ft.	60.00
6 to 8 ft.	250.00
8 to 10 ft.	2000.00
Phellodendron amurense	
(Cork Tree), branched and transplants	
3 to 4 ft.	100.00
4 to 5 ft.	140.00
5 to 6 ft.	200.00
Koelreuteria paniculata	
(Golden Rain Tree), branched and transplants	
4 to 5 ft.	150.00
5 to 6 ft.	200.00
Nyssa sylvatica (Sour Gum), branched and transplants	
3 to 4 ft.	125.00
Write for our new fall 1961 price list quoting on our complete line of evergreens, shrubs and shade trees.	
EGYPTIAN NURSERY & LANDSCAPE CO.	
Two miles North of Farina on Route 37	
Farina, Ill.	

Choice and specimen plants and trees
New list now ready. Copy on request.

J. Vermeulen & Son, Neshanic Sta. 1, N. J.

ACER DASYCARPUM
(Silver Maple) 100 1000

10,000 2-yr. seedlings

12 to 15 ins.

12 to 18 ins.

18 to 24 ins.

2 to 3 ft.

3 to 4 ft.

2000 SPIRAEA BILLARDII, PINK

12 to 18 ins., br.

18 to 24 ins., br.

5000 ALTHAEAS

Ardens Double Rose Violet

Jeanne d'Arc, semi-double white

Douglas Rose Red, Double Pink

Double White, red base

SHADE TREES, PRICED BARE-ROOT

Add \$1.00 per tree, up to 2-in. \$2.00 per

tree above 2-in., for B&B.

Pin Oak, 1½ to 2-in.

2 to 2½-in.

Green Ash, 1½ to 2-in.

2 to 2½-in.

Sugar Maple, 1½ to 1½-in.

1½ to 2-in.

Sweet Gum, 1¼ to 1½-in.

1½ to 2-in.

Tulip Poplar, 1½ to 2-in.

2 to 2½-in.

Sycamore, 1½ to 2-in.

2 to 2½-in.

Thornless Honey Locust

1½ to 2-in.

1 to 2-in.

Lombardy Poplar, 6 to 8 ft.

Weeping Willow, 6 to 8 ft.

European Mt. Ash

6 to 7 ft.

7 to 8 ft.

Magnolia soulangeana, 5 to 6 ft.

6 to 7 ft.

Redbud, 6 to 8 ft.

SNOW HILL FLORIST AND NURSERY

Shelbyville, Ky.

(20 miles East of Louisville, Ky.)

HARDWOOD CUTTINGS

7 ins. long, \$5.00 per 1000.

Forsythias, intermedia, spectabilis, primula,

lilac, ovata; Hydrangeas, A. G. and P. G.;

Privet Amur North, Honeysuckles, Morrow,

bellis rosea, tat rosea, zabelii; Philadelphus,

grandiflorus, Amalthea, coronarius; Spiraea, vanhouttei, billardia rosea, Korean; Lombardy Poplars, dwarf Arctic Willow.

EVERGREEN CUTTINGS, \$15.00 per 1000.

Junipers, Pfitzer, Savin, Hetz, Von Ehr.

Taxus, capitata, cuspidata, brownii, hicksii,

COLLECTED, INSPECTED HARD MAPLE

Each 1000

2 to 4 ft.

4 to 6 ft.

6 to 8 ft.

8 to 10 ft.

10 to 12 ft.

AMERICAN IRONWOOD

(Ostrya virginiana)

6 to 8 ft. \$1.00 each

8 to 10 ft. 1.50 each

SCOTCH GROVE NURSERY

Scotch Grove, Ia.

YOUR SOURCE OF SUPPLY ON LOCUST

Thousands of nice thornless Honey Locust, all in rows 8 ft. apart; all heavy tops.

Each, 1000

6 to 8 ft. \$2.00

8 to 10 ft. 3.00

1½ to 2 ins. 3.50

1½ to 2 ins. 4.00

2 to 2½ ins. 5.50

Larger sizes on request.

MORAINA LOCUST

Each, 1000

1½ to 2 ins. \$2.25

1½ to 2 ins. 2.50

2 to 2½ ins. 3.00

2 to 2½ ins. 3.50

IMPERIAL AND SKYLINE LOCUST

1½ to 2 ins. \$6.00

1½ to 2 ins. 7.75

1½ to 2 ins. 10.50

EGYPTIAN NURSERY & LANDSCAPE CO.

Phones, 3551 and 3553

SHRUBS AND TREES—Continued

EVERGREENS

	Per 1000
Scotch Pine, French and Spanish strains; 10 to 18 ins.	\$20.00
Blue Spruce, 3-yr., 4 to 6 ins.	30.00
6 to 12 ins.	30.00
Norway Spruce, 3-yr., 5 to 8 ins.	15.00
8 to 16 ins.	20.00
Blue Spruce, transplants 3-2, 10 to 16 ins.	100.00
Fraser Fir, transplants, 2-2, 6 to 8 ins.	90.00
Cornus florida, 2-yr., 12 to 18 ins.	40.00
18 to 26 ins.	50.00
Silver Maple, 2-yr., 18 to 28 ins.	40.00
Austrian Pine, 3-yr., 8 to 14 ins.	20.00
Booking orders for fall and spring. All plants are heavy rooted, well-branched and exceptionally heavy caliper. No burning in the Scotch. Samples on request.	

R. F. D. 2

Clymer, Pa.

SHRUBS

Excellent quality and grade.	
Cydonia japonica rubra (cutting-grown)	
24 to 30 ins.	\$0.40
Euonymus alatus	
3 to 4 ft.	1.25
4 to 5 ft.	1.50
Euonymus alatus compactus	
18 to 24 ins.	.80
24 to 30 ins.	1.20
Prunus cistena	
3 to 4 ft.	1.00
4 to 5 ft.	1.35
Spiraea vanhouttei	
3 to 4 ft.	.40
4 to 5 ft.	.45

FANCHER'S NURSERY

Sturtevant, Wis.

SHADE TREES

These sizes and kinds available in quantity at our Urbana, Ill. nursery. Amur Cork Tree, 2-in. through 5-in. dia. American Sycamore, 6½ to 8 ft. through 6-in. dia. Green Ash, 6 to 8 ft. through 3-in. dia. Silver Maple, 2½ through 6-in. dia. Tulip-Tree (Liriodendron), 6 to 8 ft. through 5-in. dia. Thornless Locust, 1½-in. through 5-in. dia. We grow principally for our own use. The above trees are surplus and available in quantity.

WANDELL'S

R. 3, Station Rd. Urbana, Ill.

COLLECTED STOCK

CANADIAN HEMLOCK	Per 100 Per 1000
6 to 9 ins.	\$4.00 \$20.00
9 to 12 ins.	6.00 45.00
12 to 18 ins.	8.00 65.00

SUGAR MAPLES,

BIRCH CLUMPS, FERNS

AND WILDFLOWERS

Send for wholesale list.

LAMPREY RIVER NURSERY

Radford H. Palmer

R. F. D. 1 Durham, N. H.

LITTLE LEAF EUROPEAN LINDEN

FINE QUALITY. GOOD HEADS.

FIBROUS ROOTS

	10-49	50-250
6 to 8 ft., 1 to 1¼-in.	\$4.50	\$3.60
8 to 10 ft., 1½ to 1¾-in.	7.00	5.50
8 to 11 ft., 1½ to 1¾-in.	9.00	7.25
10 to 12 ft., 1¾ to 2-in.	12.00	10.00
11 to 13 ft., 2 to 2½-in.	15.00	12.00

PRINCETON NURSERIES

Princeton, N. J.

DWARF MAHONIA

Jack Mayhan is authority on mountain-grown Mahonia. This is a new variety selection, hardy as Oak. Very compact, dwarf. Ready now, 100,000 plants. All plants U. S. D. A. inspected. Cash in on my many years' experience.

2-yr., T. \$20.00 per 100, \$150.00 per 1000. Cash with order. Full return 5-day privilege.

MAYHAN NURSERY, VERADALE, WASH.

RHODODENDRONS

Hybrids in varieties. True Red Jap. Maples, also the new Bloodgood variety. Own-root grown. Liners and finished plants. Our complete list of many items of choice nursery stock is now ready. See our beautifully grown Taxus, Ilex, Azaleas, etc.

GERARD K. KLYNN, INC.

Mentor, O.

Wholesale Nurseries

COTONEASTER PRAECOX

18 to 24 ins. \$2.00 each.

24 to 30 ins. \$2.25 each.

TAXUS, 2-YR. BED

Densiformis, 8 to 12 ins. \$40.00 per 100.

Hatfieldi, 8 to 12 ins. \$40.00 per 100.

Hicksi, 9 to 15 ins. \$40.00 per 100.

GULDEMOND'S NURSERY

Newport, R. I.

SPECIAL

200 Taxus repandens (Yew), 24 to 36 ins. 300 spreading Yews, to 5 ft.

500 well finished flowering shrubs, in variety, 4 to 6 ft.

300 Euonymus patens

1000 Taxus capitata (Yew), 24 to 36 ins.

THE BUDDIES NURSERY

P. O. Box 14 Juniper 2-7257 Birdsboro, Pa.

One tract of land sold. Boxwoods, Evergreens, shrubs and trees. Plants must be moved this year. Ask for wholesale offer.

Boxwood Nurseries. Mocksville, N. C.

NEW FLOWERING QUINCE HOLLANDIA

A recent introduction from Holland with scarlet-red flowers, 1½-in. across. Strong grower. Bushy plants, grown from cuttings, 18 to 24 ins. tall. \$1.20 each, \$100.00 per 100.

HOLLANDIA GARDENS

10725 39th Ave. N. E. Seattle 55, Wash.

FLOWERING SHRUBS

It's new. It's better. See quantity.

We offer heavy well-grown Weigela vanieckei, 2 to 3-ft. size, bare-root, \$48.00 per 100. B&B, \$59.00 per 100.

SHADE & SUN NURSERY

Route 52 Stormville, N. Y.

FLOWERING CRABBS

Up to 4-in. caliper.

Quotations and varieties on request.

SIMMONS NURSERY & LANDSCAPE, INC.

2260 Eastgate Rd. Toledo 14, O.

Phone TW 3-3333

FLOWERING CRABBS

Up to 4-in. caliper.

Quotations and varieties on request.

SIMMONS NURSERY & LANDSCAPE, INC.

2260 Eastgate Rd. Toledo 14, O.

Phone TW 3-3333

Rare sellout of 500 Blue, White and Black Spruce, Balsams, Douglas Fir, Redbuds, Mimosas, Larch, 3 to 10 ft. quantities. You dig; time allowed. Write.

I. M. Gardens, 530 Park Ave., Huntington, N. Y.

Phryllodendron amurense, new, hardy, rapid-growing, spreading shade tree. Deeply furrowed bark. Sheds leaves all at once. 6 to 7 ft., \$3.00; you dig, \$2.50.

Harry J. Baker, Crawfordsville, Ind.

Finest quality stock: Flowering Cherry, Plum, Crab, Basswood, Black and Norway Maples, White Birch and others. Rosebushes, non-patented. Reasonable. Write.

Canby Nursery, R. 3, Box 337, Canby, Ore.

STRELITZIAS

BIRD-OF-PARADISE (Strelitzia reginae)

Buy direct from owner. We specialize in Strelitzia reginae. Not divisions. All our plants grown from seed.

12 to 16 ins. in height.

60c each. Minimum order 50 plants.

Blooming size plants.

\$2.50 each. Minimum order 12 plants.

With spike or flower, while they last, \$3.00 each. Minimum order 12 plants.

Blooming size plants require a minimum 12-in. planter.

Send cash or check with order.

ALL PLANTS SHIPPED BARE-ROOT.

F.O.B.

DOIGE'S NURSERY

2822 Washington Blvd. Venice, Calif.

TAXUS

HEAVY TAXUS LINERS

Taxus Adams columnaris, 2-yr., tr.

Taxus brownii, 3-yr., tr.; 4-yr., TT

Taxus capitata, 2-yr. and 3-yr. seedlings.

3-yr. and 4-yr. tr.

Taxus densiflora, 3-yr., tr.; 4-yr., TT

Taxus Halliana, 3-yr., tr.; 4-yr., TT

Taxus hickory, 3-yr., tr.; 4-yr., TT

Taxus henryi, 3-yr., tr.; 4-yr., TT

Taxus hunnewelliana, 3-yr., tr.

Taxus Moors columnaris, 3-yr., tr.; 4-yr., TT

Taxus Siebold intermedia (very hardy), 3-yr., tr.

Taxus sieboldii, 3-yr., TT

Taxus thayerae, 3-yr., tr.; 4-yr., TT

Taxus wardii, 3-yr., tr.; 4-yr., TT

Sample sent upon receipt of postage.

VERKADE'S NURSERY, INC.

New London, Conn.

TAXUS HICKSI

6 to 8 ins. from open beds.

Greenhouse propagated.

January 1, 1959, \$180.00 per 1000.

January 1, 1959, XX, \$300.00 per 1000.

12 to 18 ins. field liners 4-yr., XX, \$100.00 per 1000.

ALSO FOR DECEMBER

Cutting wood, stems 10 to 15 ins. In lots of 5000. 2c each. NO SHIPPING.

Stock sold for cash pickup only.

Nursery open from 9 A. M. to 5 P. M.

DUNLAP'S NURSERY

Oakwood Manor Cromwell, Conn.

Phone Diamond 6-4972, 7 to 8 A. M. or after 7 P. M.

HEAVY TAXUS LINERS

Grown from cuttings, trimmed back, bushy.

3-yr., TTT

Per 100

Taxus brownii, 10 to 12 ins. \$45.00

Taxus cuspidata, 10 to 12 ins. \$35.00

Taxus capitata, 10 to 12 ins. \$40.00

Taxus hicksi, 10 to 12 ins. \$40.00

Taxus Vermeulen, 10 to 12 ins. \$40.00

Taxus andersoni, 10 to 12 ins. \$40.00

The above varieties in 4-yr., TTT. \$55.00

The above varieties in 5-yr., TTT. \$65.00

STROHL'S NURSERY

5204 St. Joe Rd. Ft. Wayne, Ind.

TAXUS CAPITATA

(Upright Japanese Yew)

2-yr. selected edgs. (seed sown lightly.

Plants grown with plenty of room in beds.), \$15.00 per 100, \$125.00 per 1000.

4-yr. T. \$45.00 per 100, \$400.00 per 1000.

6-yr. TT. \$90.00 per 100, \$750.00 per 1000.

WHERE QUALITY EXCELS. No charge for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

TAXUS CUTTING WOOD

Amherst, Brown, Hicks, Ward.

True to name, large, husky,

\$20.00 per 1000.

MITSKA NURSERY

Amherst, O.

UNROOTED TAXUS CUTTINGS

Taxus, intermedia, wardii, Hicksii, cuspidata, brownii, hirsutissima, capitata,

andersonii, denudata and henryi.

\$15.00 per 1000.

THEODORE KLEIN NURSERIES

Crestwood, Ky.

TAXUS

Spruce, 18 to 24 ins.

Hicksii, 15 to 18 ins.

10,000 to choose from.

Reduced prices. Must clear leased land.

BRAINE & FOREMAN

U. S. Route 62 Sharon, Pa.

FINER LINERS, TOP QUALITY TAXUS

Rooted cuttings, 1, 2, 3, 4 and 5-yr. trans-

plants, also 2½ and 3-in. pots, 10 per cent off

already low prices. List on request.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

VHORN'S NURSERY

Sharon, Pa.

VINES

HALL'S JAPANESE HONEYSUCKLE

Per 100 Per 1000

Division liners \$1.50 \$10.00

2-yr., field-grown, T. 5.00 40.00

VINCA MINOR (hardy Myrtle)

Division liners \$1.50 \$10.00

Clumps, 10 to 15 leads 5.00 40.00

Clumps, 15 to 20 leads 6.00 50.00

2½-in. pots 10.00 90.00

LOWELL H. McGEE NURSERIES

P. O. Box 341 McMinnville, Tenn.

Phone 3351

AMPELOPSIS VEITCHI (BOSTON IVY)

Per 100 Per 1000

2-yr., medium \$35.00 \$300.00

2-yr., No. 1 40.00 350.00

FRANK TOREKI & SON

274 Bowhall Rd. Painesville, O.

WANTED

WANTED orbiculata (Oriental Bitter-

sweet), 3-yr.

1 Acer rubrum, 1½ to 2

Crataegus oxyacantha pauli (Scarlet Haw-

thorn), 8 to 10 ft.

Crataegus phoenopyrum (Washington Haw-

thorn), 8 to 10 ft.

All bare-root.

CHARLES J. SANDERS

Monongahela, Pa.

WANTED

10,000 pyramidal Arborvitae,

unrooted cuttings

for December delivery.

JOHN ZELENKA EVERGREEN NURSERY

R. R. 2 Grand Haven, Mich.

Phone 842-1367

WANTED

1 to 15 ft. Blue Spruce (cut)

2 to 8 ft. Blue Spruce (cut)

4 to 8 ft. Blue Spruce, B&B

Well-shaped and colored trees.

Delivery or pick up in November.

HOMESTEAD NURSERY

Millington, N. J.

Phone Millington 7-0665

WE WANT

5000 to 10,000 Yellow Delicious trees on

E. M. IX root stock. Prefer 1-yr. whips. Send

quotation at once.

VAN WELL NURSERY, INC.

Wenatchee, Wash.

Wanted—1000 Hypericum calycinum, 2-yr.

plants, preferably in qt. or gal. containers.

REDUCE YOUR FREIGHT BILLS ON JAPANESE BAMBOO STAKES

We ship freshly imported stock from:
New York, Chicago, Detroit, New Orleans
Portland, Ore., San Francisco and
Los Angeles.

DYED GREEN PLANT STAKES

Hand selected, dyed a rich forest green.
Uniform lead pencil thickness.

Size	Per bale	Price
1 1/2 ft.	2000	\$ 6.00
2 ft.	2000	8.00
2 1/2 ft.	2000	10.00
3 ft.	2000	13.00
4 ft.	2000	18.00
5 ft.	2000	27.00
6 ft.	2000	38.00

SPLIT BAMBOO STAKES

for light staking
(F.O.B. New York only.)

Size	Per bale	Price
12-in.	2000	\$ 5.00
15-in.	2000	7.00
18-in.	2000	9.00
24-in.	2000	11.00

NBS IMPORTED NATURAL BAMBOO

Stakes selected especially as plant supports. The best quality available.

Size	Diameter	Per bale	Price
3 ft. (% -in.)	1000	\$19.50	
4 ft. (% -in.)	500	25.00	
5 ft. (% -in.)	250	18.50	
6 ft. (% -in.)	200	18.50	
7 ft. (% -in.)	150	19.00	
8 ft. (% -in.)	100	18.00	

QUANTITY DISCOUNTS ON TOTAL ORDER

5 bales up, less 5 per cent.
10 bales up, less 10 per cent.
25 bales up, less 15 per cent.

Our generous quantity discounts apply to total orders for all types of stakes.

Sold in bale lots only.

Special prices for direct import of 25 bales or more to all Atlantic, Gulf and Pacific Coast ports.

McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

DELIVERED PRICES EXTRA HEAVY**NATURAL BAMBOO STAKES DIRECT FROM THE PRODUCER**

Now in our 20th yr. supplying millions of stakes to leading growers throughout the United States and Canada.

Specifications represent approximate average diameter at bottom end.

DELIVERED PRICES PER 100 STAKES

(See below)		DELIVERED PRICES	
Length % to 1-in.	% to 1%	% to 1	1 to 1 1/4
4 ft.	\$3.90	\$5.00	\$5.50
5 ft.	4.90	5.90	6.80
6 ft.	5.90	7.30	8.50
7 ft.	9.00	10.30	11.60
8 ft.	10.80	12.00	13.90
10 ft.	...	16.00	17.50
12 ft.	...	18.80	19.90

Above prices include delivery in the continental United States east of the Rockies. Cash orders will be shipped prepaid. Full freight allowed to established accounts. Freight allowance applies to orders for a minimum total of \$20.00. Less quantity, less 15 per cent. F.O.B. here.

A. C. PATTERSON, FRISCO, LA.
Formerly of Centerport, Ky.

OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.
Ask for our Nursery Supply List.

HALF MOON CO. Box 27A, Plainfield, N. J.

Surplus Stock can be easily and quickly turned into

Cash by listing it in the American Nurseryman Classified Ads.

CHRISTMAS TREES**ORDER LIVE CHRISTMAS TREES NOW WHILE SUPPLY IS LARGE**

Norway Spruce	30 up	100 up	\$2.50
2 1/2 to 3 ft.	...	2.50	\$2.25
3 to 4 ft.	...	3.75	3.50
4 to 5 ft.	...	5.00	4.75

Also Red and Scotch Pines at the same price.

TAXUS (YEW'S)

ONE OF OUR SPECIALTIES We have a quantity of high-quality Taxus, in small to medium sizes. These must be seen to be appreciated.

R. BRUMOND SMITH NURSERY, INC.
R. R. 2, Box 198 Muncie, Ind.
Phone ATLAS 2-5144

LIVING CHRISTMAS TREES

Pruned yearly. Excellent color. Heavy, well-dug, B&B or potted in wooden containers.

Scotch Pine, 2 to 3 ft.	...	\$2.25
Colorado Blue Spruce, 2 1/2 to 3 ft.	...	3.50
Colorado Blue Spruce, 3 to 4 ft.	...	4.50
Norway and White Spruce, 3 to 4 ft.	...	2.85
Norway and White Spruce, 4 to 5 ft.	...	3.75
Norway and White Spruce, 5 to 6 ft.	...	5.00
Norway Spruce, B&B only, 6 to 7 ft.	...	6.50
Norway Spruce, B&B only, 7 to 8 ft.	...	8.50

W. V. GRIFFIN NURSERIES
8 Elizabeth Ave. East Brunswick, N. J. Turnpike exit 9. Phone CL 7-2484

NORWAY SPRUCE

Well-sheared, full, heavy trees. Good color.

Each, 5-30	30-100
2 to 3 ft.	\$2.25
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.25

Row-run and you dig your own, \$1.75 to \$3.00 each.

We have a large quantity.

We invite your inspection.

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

Phone Shelby 3-2161

PREMIUM CHRISTMAS TREES

15,000 sheared Scotch Pine, 4 to 9 ft.; dark green color. These trees will command top retail prices. Located 90 miles east of Pittsburgh on Route 322 between Clearfield and Philipsburg, Pa. Let us quote on your requirements. We invite early inspection.

AVERY TREE NURSERIES

Box 232 Phillipsburg, Pa.

Phone Poplar 5-4362 (Clearfield) after 7 PM.

SCOTCH PINES, 5 TO 8-FT. SIZE

Strictly graded to U. S. standards. Don't buy a pig-in-a-poke! Inspect our trees yourself, or have trees inspected by USDA inspectors before shipment. Truckloads at reasonable prices. Also roping, wreaths, cones, etc., complete line.

WINTER WONDERLAND FORESTS

Hulkonen Bros. Kalkaska, Mich.

Phone FOREST 2-4351

5000 CHRISTMAS TREES

5 to 8-ft. Scotch Pine, sheared. Premium and select grades.

Location: On U.S. 20, 1 mi. west of Rolling Prairie, Ind.

YOUNG'S EVERGREEN NURSERY

R.R. 3, Box 308 LaPorte, Ind.

CHRISTMAS TREES

3000 Blue Spruce, 6 to 9 ft.

4000 Douglas Fir, 5 to 8 ft.

7 mi. from Morgantown Interchange, Pa. Turnpike, U. S. 122 North. Phone JU 2-5923. **GIBRALTAR LEWIS NURSERIES** Birdsboro, Pa. R.D. 1

Christmas trees, wholesale. 15,000 top quality, sheared trees, sizes 4 to 9 ft. Scotch and Austrian Pines, Norway, White and Colorado Spruce. Reasonable prices. Riverview Nursery, Box 47, Lewisburg, Pa.

SHEARED SPRUCE

Norway, White, Black Hills, 3 to 5 ft. B&B, row-run, \$3.00.

DUGAN NURSERIES, INC.

Center St. Perry, O.

Check Your Stock NOW!

If you have a surplus

sell it through the

American Nurseryman Classified Ads.

FLATS**WHITE CEDAR FLATS**

Order No.	Size	Price per 100	Wt. per 100
No. 1.	14x20 2 3/4-in.	\$27.75	320
No. 2.	14x20x3 3/4-in.	32.00	400
No. 3.	12x16x2 3/4-in.	31.00	260
No. 4.	12x16x3 3/4-in.	24.75	275
No. 5.	14x16x2 3/4-in.	23.75	275
No. 6.	14x16x3 3/4-in.	28.00	290
No. 7.	15x22 3/4x2 3/4-in.	31.50	380
No. 8.	15x22 3/4x3 3/4-in.	35.75	425
No. 9.	11 1/4x22 3/4x2 3/4-in.	25.75	320
No. 10.	11 1/4x22 3/4x3 3/4-in.	29.50	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	12x11x5-in.	16.75	160
No. 13.	13x5x6.5-in.	19.00	215
Plant boxes,	5 1/2x11 1/4x2 3/4-in.	8.00	60
Plant boxes,	5 1/2x8 1/2x2 3/4-in.	5.50	45

Skeleton flats to carry TERPKARS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.

Bottoms and sides are 3/4-in. thick. Plant boxes are made of thinner lumber. Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates:

\$1.00 setup charge, plus 3¢ per end piece.

Shipped K.D. in units of 25. F.O.B. Cook.

All shipments by truck, unless otherwise specified.

QUANTITY DISCOUNTS

Order totaling \$100.00 to \$200.00, 5 per cent; \$200.00 to \$400.00, 6 per cent; \$400.00 to \$600.00, 7 per cent; \$600.00 to \$800.00, 8 per cent; \$800.00 to \$1000.00, 9 per cent; \$1000.00 and over, 10 per cent.

TERMS: 2 per cent check with order; 1 per cent 30 days, net 60.

H. C. HILL & SONS, INC.

Phone NORTH 6-3348 Cook, Minn.

CYPRESS FLATS, K.D.

Fine stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. Inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pc. to bundle, 4 ft., \$3.50 per bdl.

50 pc. to bundle, 6 ft., \$4.50 per bdl.

50 pc. to bundle, 8 ft., \$5.50 per bdl.

Ship same day.

YOHO & HOOKER, YOUNGSTOWN, O.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

CYPRESS FLATS**TOP GRADE FLATS THAT LAST**

No. Size L.S.M. Per 100 Wt.

1, 14x20x3 3/4 in. \$25.80 590

2, 14x20x3 3/4 in. 30.00 680

3, 12x16x2 3/4 in. 20.00 440

4, 12x16x2 3/4 in. 22.50 510

5, 14x16x2 3/4 in. 29.50 670

6, 15x22 3/4x2 3/4 in. 33.80 780

9, 11 1/2x22 3/4x2 3/4 in. 23.50 540

Any size to order. Bottoms and sides 3/4-in. thick; ends 3/4-in. All planed one side.

5 per cent discount on orders for 500 or more. Terms: Cash. Up to 3 lines printing.

\$1.00 setup charge plus 1¢ per end piece.

Shipped K.D. units of 25. F.O.B. Williams-

ton, N. C. truck.

H. C. HILL & SONS

P. O. Box 747 Williamston, N. C.

Phone SWIFT 2-4127

LABELS**DAHLIA OR TREE LABELS**

Priced per carton

Plain Painted

3 1/4x 1/2 in., notched, not wired \$3.00 \$3.60

3 1/2x 1/2 in., wired (copper) ... 2.95 4.90

POT LABELS

4x5 in. (cartons 1000 each) ... 3.95 4.60

5x5 in. (cartons 1000 each) ... 4.30 5.10

6x6 in. (cartons 1000 each) ... 4.70 5.80

Priced per carton

Plain Painted

8x 1/2 in. (cartons 500 each) ... 3.50 \$4.30

10x 1/2 in. (cartons 500 each) ... 4.20 5.10

GARDEN STAKES

8x 1/2 in. (cartons 250 each) ... 3.00 3.60

10x 1/2 in. (cartons 250 each) ... 3.30 3.90

11x 1/2 in. (cartons 100 each) ... 2.00 2.40

Our labels are perfectly white and smooth

on both sides and are pronounced by growers

on the best and most economical.

Catalog on request.

"We ship same day."

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FINEST BLANK or PRINTED wood labels.

BENJ. CHASE CO., VI. Sta., DERRY, N. H.

Phone CE 3-4868

LAWN PAINT**TRUGREEN WINTERLAWN GRASS COLOR CONCENTRATE**

Natural color.

Durability—lasts till spring.

Completely safe to existing lawn.

100-gal. lots, \$4.90 per gal.,

in 1-gal. cans.

\$4.85 per gal. in 5-gal.

PLASTIC FILM

NEW LOWER PRICES ON "GER-PAK" BRAND POLY FILM NATURAL AND BLACK POLY FILM			
Size	Sq. ft.	Less than \$6.00 per roll	\$6.00
.0015-IN. (1½ mil.)	BLACK FOR MULCHING		
3 ft. x 500 ft.	1500	\$6.00	
3 ft. x 1000 ft.	3000	12.10	
4 ft. x 1000 ft.	4000	16.15	
.002-IN. (2 mil.)	NATURAL CLEAR ONLY		
*4 ft. 2 ins. x 200 ft.	833	\$4.50	
3 ft. 4 ins. x 200 ft.			
	1667	8.98	
12 ft. x 200 ft.	2400	12.90	
.004-IN. (4 mil.)	NATURAL CLEAR ONLY		
*3 ft. x 100 ft.	300	3.25	
6 ft. x 100 ft.	600	6.31	
8 ft. x 100 ft.	800	6.46	
14 ft. x 100 ft.		6.61	
NO FOLDS	1400	15.07	
.004-IN. (4 mil.)	NATURAL CLEAR OR BLACK		
10 ft. x 100 ft.	1000	\$10.76	
NO FOLDS	1250	13.46	
12 ft. x 100 ft.	1600	17.22	
20 ft. x 100 ft.	2000	21.53	
30 ft. x 100 ft.	2400	25.83	
28 ft. x 100 ft.	2600	30.44	
32 ft. x 100 ft.	3200	34.44	
40 ft. x 100 ft.	4000	42.05	
.006-IN. (6 mil.)	NATURAL CLEAR ONLY		
*3 ft. x 100 ft.	300	\$4.84	
6 ft. x 100 ft.	600	9.68	
12 ft. 6 ins. x 100 ft.			
NO FOLDS	1250	20.19	
14 ft. x 100 ft.			
NO FOLDS	1400	22.61	
.006-IN. (6 mil.)	NATURAL CLEAR OR BLACK		
10 ft. x 100 ft.	1000	\$16.15	
NO FOLDS	1600	23.84	
16 ft. x 100 ft.	2000	32.30	
24 ft. x 100 ft.	2400	37.76	
28 ft. x 100 ft.	2800	45.21	
32 ft. x 100 ft.	3200	51.68	
40 ft. x 100 ft.	4000	64.60	
BIG 5 PER CENT CASH DISCOUNT, check with order. Custom rolls of various sizes may be combined to obtain quantity prices. Priced F.O.B. DAYTON, LESS THAN 25,000 SQ. FT.; OVER 25,000 SQ. FT., FULL FREIGHT PREPAID.			
*PACKED 4 ROLLS PER CARTON			
DAYTON NURSERY & GARDEN SALES P. O. Box 763 Dayton, O. Phone 223-8277			

CALIFORNIA CONVENTION

[Continued from page 7]

eries, Pacific Palisades, and Mayflower Nurseries, Gardena. Sunset and Centinela chapters, with two winners each, received \$50, and Central chapter, \$25.

A major medical plan is now available for members. A surprise plaque was awarded to insurance committee chairman, David Cunningham, Newport Beach, for his 10 years of service and accomplishments with the committee.

The legislative committee was singled out by several speakers. Undoubtedly the association had its most productive legislative year, and in the words of Chairman David Stump, Armstrong Nurseries, Inc., "better than we could have hoped for in January." The obvious high spot was passage of legislative assembly bill No. 2719, which states that production of nursery stock is an agricultural activity. The AFL-CIO asked Governor Brown not to sign the bill, and it just did get his signature 12 hours before the deadline.

Labor committee chairman, Neil Moore, Jackson & Perkins Co. of California, Pleasanton, announced the availability of guidance through consulting services on la-

POLYETHYLENE FILM LOWEST WHOLESALE PRICES!

.0015 mil., black, 3 ft. x 1000 ft.	\$11.25
.002 mil., clear, 8 ft. 4 ins. x 200 ft.	8.33
.004 mil., 10 ft. x 100 ft.	10.00
.006 mil., 10 ft. x 100 ft.	15.00
All other standard sizes, in clear or black, proportionately priced. Freight prepaid on orders of \$50.00 or over.	

WHY PAY MORE?

Write for our complete wholesale price list.
SUPER-PLASTICS
1421 W. Chicago Ave., Chicago 22, Ill.
Phone Monroe 6-9263

POLYFILM, Clear, Black, Rolls, Sheets.
Save on small and large lots. Write
HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC POTS

NEW LOW PRICES ON WILSON HIGH IMPACT PLASTIC POTS

Round pots	Dimensions, ins.	Ctns.	Carton
Round tubs	Size Dia. Depth	1 to 9	No. Wt.
R-200	2 2 1½	16	1000 13
R-225	2 ½ 2 ½	16	11.75 20
R-250	2 ½ 2 ½	26	12.75 20
R-300	3 3 2 ½	16	16.75 20
R-400	4 4 4	31	31.00 32
R-500	5 5 5	32	63.00 38
R-600	6 6 6	120	120 28
R-700	7 7 6	72	27
Square pots			
RT-350	3 ½ 3 ½ 2 ½	25.25	1000 38
RT-400	4 4 2 ½	30.00	500 26
RT-500	5 5 3 ½	60.00	324 34
RT-600	6 6 4 ½	90.00	120 20
Gallon can	6 6 6	120.00	150 43
No. 10 Planta Can	6 6 6	120.00	150 43
Bantam Flats (Inside dimensions)			
BF-90 (7 ½ x 5 x 2 ½ deep)	\$67.00	96	15
BF-123 (3 ½ x 5 x 2 ½ deep)	74.00	96	18
Also available in decorator colors. Write for quote on colors. Send fifty cents (50¢) for complete set of samples postpaid.			
DAYTON NURSERY & GARDEN SALES P. O. Box 763 Dayton, O. Phone Baldwin 2-8277			

These stakes are made of cypress and red
wood; are good, strong stakes and will give
long service. "A little better than seems
necessary."

AMERICAN NURSERYMAN

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Letterheads, 8 ½ x 11 ins.; envelopes, No. 10,
250 of each, \$7.50, postpaid in U.S.A.
H. Grebe, 306 Union St., Royersford, Pa.

SHINGLE TOW

CEDAR TOW

CLEAN, FRESH CUT MATERIAL FOR
PACKING NURSERY STOCK. PROMPT
SHIPMENTS. YEAR-ROUND SUPPLY. 75¢
per bale, 17x20x34 ins. 125 lb. guaranteed
shipping weight.
HUNTINGTON SHINGLE CO., INC.
P. O. Box 109 Springfield, Ore.

SPHAGNUM MOSS

No. 1 Sphagnum Moss, large burlap bales,
also wire bales. Long fibered, clean, firmly
packed. Write for prices.
Joseph Jamros, Star Route, Pittsville, Wis.

Fresh, clean sphagnum moss, write, or
phone City Point 133 for our low prices on
wire-bound bales in truckloads or carloads.
Tony Jaromin, City Point, Wis.

Check Your Stock NOW! If you have a surplus sell it through the American Nurseryman Classified Ads.

STAKES

CYPRESS PLANT STAKES 50 pieces to bundle.

1x1-in.-3 ft., pointed.....\$3.00 per bundle
1x1-in.-4 ft., pointed.....3.50 per bundle
1x1-in.-5 ft., pointed.....4.50 per bundle
1x1-in.-6 ft., pointed.....5.50 per bundle
1x1-in.-7 ft., pointed.....7.00 per bundle

These stakes are made of cypress and red
wood; are good, strong stakes and will give
long service. "A little better than seems
necessary."

WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree-guy WIRE,
HOSE for guy-wire PADDING.
Prices and samples on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.
Plant Stakes, see large ad under Cane
Stakes. McHutchison & Co., Ridgefield, N.J.

NURSERIES SOLD AT AUCTION!



Get top dollar—immediate cash—choose the nation's
most qualified nursery liquidators. Get the highly spe-
cialized services of: J. W. DICKERSON and ASSOCIATES

- Sales planned and conducted for any size or type of operation (wholesale, retail, etc.)
- 30 years' experience selling nursery real estate, stock, and assets at auction NATIONALLY
- Auctioneers are 4-year horticultural graduates
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write — wire — phone today to:

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PRINTING FOR NURSERYMEN

Better Quality—Lower Prices
Prompt Service

Moisture-resistant labels, plain or
printed, single or sheet, for typewriter
use. Wide variety, lowest prices.

Shipping tags, color broadsides, cata-
logs, price lists, order blanks, order
books, stock records, gummed labels,
blotters, salesbooks, distinctive station-
ery.

Letterpress and offset printing. Write
for free samples and prices.

THE TINGLE PRINTING CO.
SINCE 1907 PITTSVILLE, MD.

For Front-End Loaders

CLAVEY TREE AND SHRUB DIGGER

See Your International
Tractor Dealer or Write:

ELMER CLAVEY, INC.
Rt. 1, Box 220-4 Mundelein, Ill.

The temperature
watchdog
STANDARD'S
G. H. 5
GREENHOUSE
TEMPERATURE ALARM

Battery-operated maximum-minimum type with lock.
Made of nonferrous metal,
insulated wiring, platinum
contacts, unbreakable crys-
tal, chrome-plated case. Scale 20 to 100 degrees
F. \$22.50. Write for details. Dept. A110.

STANDARD THERMOMETER, INC.
BOSTON 25, MASS.



ULLMAN CLEAT

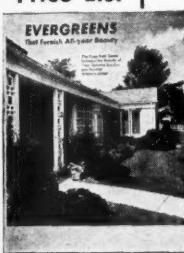
Strong, reliable, protects flowers
from damage in transit, reduces
stem折断 and insures better prices.
The Ullman cleat grips sides of
box, holds stems to bottom. Send
for prices.

THE ULLMAN CO.
Florence, Mass.

BOOKS — FOLDERS — HANGERS for Nurserymen



Write for
Quantity
Discounts
and
Price List



4 Popular Folders

Each folder 10½ x 35 in.,
open, printed in full color.

1. SHRUBS,
2. EVERGREENS,
3. SHADE TREES,
4. ROSES

Each **25¢**

CORRECT PLANTING Methods

32-page pocket size book containing very complete information for all kinds of plants, well illustrated, helpful in preventing claims for dead stock.

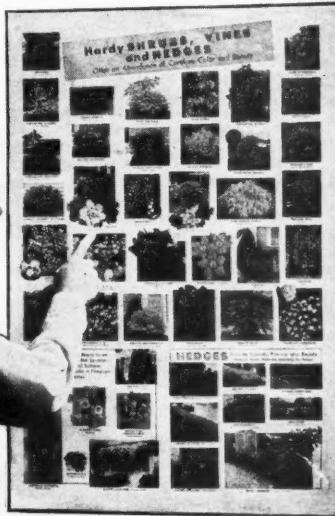
4 Wall Hangers

Each 25 x 38 in.,
printed in full color.
Metal binding top
and bottom, very
substantial.

1. SHRUBS,
2. EVERGREENS,
3. SHADE TREES,
4. ROSES

\$3.00
Each

Sample
copy
10c



Cash with Order, Please.

A. B. MORSE CO. Horticultural Printers **St. Joseph, Mich.**

bor problems and the establishment of an emergency fund.

Scholarship and Education

The scholarship and education committee continued its rapid strides under Chairman Docia Prickett, Prickett's Nursery, and announced some firsts, too. In an effort to get trained workers into the industry, a program awards five scholarships to junior colleges and four to 4-year colleges. In addition to the monetary awards, the students are honored by presentations at chapter meetings and publicity. Through chapter subcommittees, contacts are being made in schools at all levels throughout the state to acquaint students with and to sell the nursery industry.

Now under consideration for employees with no training is a 6-week concentrated course in July, when it could be handled at Cal Poly, San Luis Obispo. The course would be general in nature, teaching basic plant knowledge, sales, work habits, etc. Basically, the aim is to teach workers how to make more money for the nursery industry. Cost would be \$125 tuition, plus room and board at \$5.50 (\$6.50 for a single room) per day.

The membership committee, un-

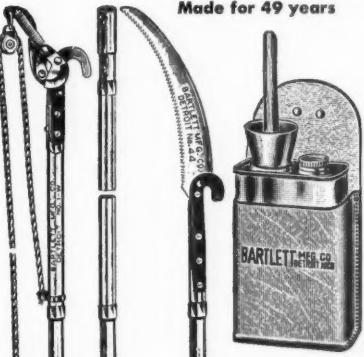
USE BARTLETT PRODUCTS



Universally used because
of superior quality.



Now standard equipment
with most users.
Made for 49 years



"WE"
Combination
pruner and saw
with extra
sections
4, 6 or 8 ft. long

Tree paint can
with adjustable
brush and leather
case with belt
loop on back.

TOOL OF 99 USES


SINE, AN-2, QUAKERTOWN, PA.
For Nurserymen, Florists, Fruit Growers, Poultrymen, Ranchers. Ideal for builders, dries concrete, thaws, melts tar, irrigates, destroys tree stumps, disinfects, splits giant rocks, incinerates. Weighs 20 lbs. Burns kerosene, easy to use. Write for FREE descriptive literature.

"MISTER 100"

MIST PROPAGATION NOZZLE—finest ever developed — wide coverage — flat plane of mist. Spaced 3 ft. apart — drilled and tapped holes — $\frac{1}{4}$ -in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

WHITE SHOWERS, INC.
17514 Woodward Ave. Detroit 3, Mich.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.50 per inch, each insertion.

Liners: 40¢ line; minimum order \$4.00.

HELP WANTED

SUPERVISING LANDSCAPE FOREMAN

For Delaware nursery specializing in high-quality landscape work, mostly carriage trade. An unusual opportunity in a young growing business in a high income community. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running 4 crews and maintenance of 4 trucks and other related equipment); also prepare bids for some project work. Designing by others. Applicant must be interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of ornamental plants, ability to move large trees and experience with execution of bid projects. Attractive salary, paid vacation, A.A.N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

PROPAGATOR

Propagator experienced in production of coniferous and broad-leaved evergreens by grafts, greenhouse cuttings, outdoor cuttings, mist propagation and budding and grafting of ornamental trees. Large mid-southern wholesale grower. Expect 2,000,000 or more liners per year. House, insurance and good salary to right man. Only permanent employee wanted. Contact Box 866, care of American Nurseryman.

SITUATION WANTED

B.S. degree in landscape architecture; 15 years' experience in designing and all phases of landscape construction. Can furnish some drawings and photographs of work already completed; work involved large and small projects. Presently operating own small nursery. Seeking more opportunity in a larger, more productive situation.

Reply to Box 888, care of American Nurseryman.

HELP WANTED

Supervisor. \$7000 salary, 40 years or older. Over 3 landscape crews and 5 acres (increasing) of nursery stock. Landscape and garden center—rural community, pleasant surroundings. Eastern Pennsylvania. Write, giving background and references, to Box 889, care of American Nurseryman.

HELP WANTED

Salesman to call on florists and nurserymen. Extensive traveling required. \$100 per week while in training. Write:

GROWERS SIGN SERVICE
P. O. Box 312 Tallmadge, Ohio

HELP WANTED

LANDSCAPE ENGINEER

For estimating and supervision in New York and New Jersey area. Write Box 885, care of American Nurseryman.

FOR SALE

FLORIDA BARGAIN — PLAY WHILE WORKING YEAR ROUND IN BEAUTIFUL TROPICAL GARDEN

A going nursery business in fast-growing community. Owner retiring. Low total price includes fixtures, stock, equipment, livable house and five valuable lots (approximately one acre). Also since on premises and need in community for florist's shop. An unusual bargain. \$25,000. Terms. Write Box 893, care of American Nurseryman.

FOR SALE

2½-acre established nursery on busy highway, near 7 towns and numerous subdivisions. Perfect for go-getter. Close to shopping, churches, schools and transportation. Suburb of Chicago. Excellent business. Fine stock. Approximately 3500 evergreens, shrubs and ornamental shade trees. Garden tools. Beautifully landscaped home, garage and storage shed. Good outlet for wholesaler. Owner retiring. Reply: Box 892, care of American Nurseryman.

FOR SALE

Nursery and landscape service, established for over 30 years. Year-round business—fast-growing community of 13,000, expanding by over 200 homes a year, in large trade area. Includes landscaping equipment and stock. Complete tree surgeon's and sodding equipment and sod field.

WILKE LANDSCAPE & TREE SERVICE Columbus, Neb.
Rt. 3

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave., Elizabeth, N. J.

FOR RENT

Three 30x350-ft. greenhouses. Located in northeastern Ohio. Utilities and heat furnished; also supervision if desired. Write:

NURSERY SEED & SUPPLY
Box 491 Ashtabula, O.

FOR RENT

Garden center and nursery, in central Kentucky, 4 acres of land, 100-ft. greenhouse, lath house and garden shop. Low rent with easy terms on equipment, greenhouse plants, nursery stock and garden supplies. Good living for man and wife. Write Box 891, care of American Nurseryman.

SITUATION WANTED

Young, experienced landscape designer-salesman, desires employment in the east, Chesapeake Bay or Atlanta area. College educated, a go-getter; have new, very profitable landscape ideas. Also experienced in nursery management. Write box 882, care of American Nurseryman.

SITUATION WANTED

Landscape designer—foreman with following in Nassau County, N. Y.: 9 years' experience. Horticulture graduate, forestry and engineering training. Married, veteran with heavy selling experience. Desired responsible position with future. Write Box 890, care of American Nurseryman.

FOR SALE

Nursery near Atlantic City, N. J. Owner retiring after 32 years. Largest, most diversified growing stock in South Jersey. Fully equipped greenhouses, trucks, etc., and modern residence. Proven money-maker. Details on request.

ALBERT M. GREENFIELD & CO., INC.
1616 Pacific Ave. Atlantic City, N. J.

FOR SALE

COME TO OREGON

11 suburban acres, spring-fed pond, registered deep well, 2-bedroom house, machine shed, two 30x150-ft. steel-framed greenhouses, oil heated. Cash, \$16,000. Terms, \$18,500. Contact: Owner, 6222 Sunnyside, N.E., Salem, Ore. (Phone: EM 4-3742)

NOV

der John Coulter, Coulter's Nursery, San Carlos, inaugurated the allied industries classification. A bylaws change concerning membership was voted down by the convention. In effect, the assembly tabled consideration of membership for chain organizations in the C. A. N. The proposed amendment would have permitted one membership, regardless of number of stores in the chain.

The membership committee was applauded for the addition of chapter No. 17, North San Diego. Sponsored by the San Diego chapter, the new group was represented at the convention by Walter Piercy, Carlsbad. The addition of several additional chapters looms in the foreseeable future.

Herbert Fowler, Fowler Nurseries, Inc., Newcastle, discussed the new and continuing activities of the research committee. More arresting than any first was Mr. Fowler's comment that research results in savings of \$13 billion annually in the production of food and fiber—twice as much as has been spent on research in 100 years.

The "Plant California" committee chairman, James Perry, Perry's Plants, Montebello, announced that the name of the group carrying on this state-wide program, which includes many industries, has adopted the name, "California Beautiful" co-ordinating committee. There are currently 100 communities carrying on beautification programs.

The state chamber of commerce has offered staff, office space, and other facilities. The group has pointed an accusing finger at nurserymen regarding ability to supply plant materials. It is up to nurserymen to show at the October Los Angeles meeting that they can supply plants and indicate prices.

Market Development

The market development and publicity program has been foremost in attention of the association

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Modern FULL COLOR *Lithography*...

will add NEW LIFE and SALES to your CATALOGS!!

Sweeney, Krist and Dimm, America's largest horticultural lithographers, has a library in excess of 10,000 available color illustrations. A competent staff to aid you with production of your direct-mail catalogs and folders or point-of-sale material. Full facilities for layout, design, photography, artwork, copyrighting through a complete mailing service.

If you use a color catalog or folder, send it to us with detailed specifications for new issues. You will receive a proposal for increased sales through literature lithographed in beautiful full color.

WRITE TODAY TO AMERICA'S MOST MODERN HORTICULTURAL PRINTERS

Sweeney, Krist and Dimm

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Portland 9, Oregon
Capitol 6-6881

during the past two years, with the 40 per cent of dues assessment voted at the Long Beach convention in 1959 putting the program into high gear. Several of the projects initiated at that time have been completed this year.

The high point for Chairman Jack Schneider, Orchard Nursery, Lafayette, in his report was introduction of the merchandising film, "A New Broom Sweeps Green." The color film was enthusiastically received by the nurserymen who could see the truths of the film after their laughter over the antics of Stan Pat had subsided. The film depicts a nurseryman operating today as he did 20 years ago and steadily losing business. It shows the outmoded Stan Pat operations and compares them with the procedures of the new, modern nursery across the street. Gradually Stan gets the idea, and the film covers the transition of Stan Pat into a progressive operator. The film cost \$5,000 and featured member nurseries and nurserymen of the C. A. N.

The promotional budget for the coming year is \$20,000, which is the amount from the 40 per cent of dues assessment. Other new areas for the association being developed



Garden Shop BIG Hand Truck handles a 40-in., 1500-lb. ball, gets into places inaccessible to heavy equipment. Fewer men get the job done without damage to established lawns.

NURSERY HAND TRUCKS

Save Money for You

Built by a nursery to handle B&B material, Garden Shop Hand Trucks let you handle heavy jobs easier, quicker with fewer men. Hundreds in use. Three sizes, capacities up to 1500 lbs.

This sturdy, good-looking modern equipment is tried and tested. You can do more work, faster, with less cost and less plant damage and less strain on your men. Write for free illustrated folder giving details and prices.

THE GARDEN SHOP, INC.

P. O. Box 51, Overland Park, Kan.
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FEDERAL 2-4359

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. . . the best in
modern plant containers.
JIFFY-POT CO. OF AMERICA
West Chicago, Ill.

NEW WHALEHIDE POTS



Exclusive vegetable fibre material with nitrogen added

**Durable Above Ground
Disintegrate Below Ground
Best Pot Prices on the Market**

Exclusive insulation qualities. Winter and summer root protection. Bottom vented for drainage. Cuts transplanting costs. Helps assure maximum survival. Ideal for modern merchandising. Cheapest way to sell plants in bloom. Customer planting is easier, safer. Available in a wide range of sizes, nested. No asphalt. No metal. Won't stick, won't become soggy. Bottoms won't fall out. Made in England. Used around the world.

TWO TYPES	SIZES	LIFE ABOVE GROUND
Propagating Pots (Black)	1 1/4"-6 1/4"	3-4 mos.
Grow Pots (Red).....	3"-12"	9-15 mos.

Both types disintegrate rapidly below ground

**DISTRIBUTED EAST OF MISSISSIPPI
BY**

FAFARD

**CONRAD FAFARD, INC.
P.O. BOX 774
SPRINGFIELD, MASS.**

- Please send prices.
- I enclose \$2.00 for a sample set of Whalehide pots.

NAME _____

ADDRESS _____

with the Pettler Advertising Agency, Orinda, are a plant-of-the-week kit, over 200 plant identification cards, free mat services and paid advertising in Sunset magazine. The first one-third page appeared in the October issue. Reprints were sent to all nurseries. The seal shown on the shirt of the pictured nurserymen will soon be available. A sample radio transcription was played. Plans are under way for a "Plant-of-the-Week" contest, whereby a plant will be described over the radio; any listener who calls in and identifies the plant will be told to pick it up at a given local nursery.

Secretary's Report

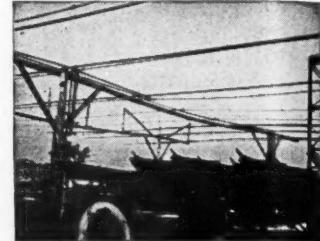
Elmer Merz, executive secretary of the C. A. N., agreed that 1961 was undoubtedly the most active and successful year of the association. He also conceded that not all individuals agreed with all the steps taken by the majority, and he admitted that some mistakes had been made. But at least, action is being taken and decisions are being made. The more decisions made, the more experience the group gains, and thus more chance of making the correct decisions develops. He called for individual participation to give the group vigor. Mr. Merz pointed out that, while the association had been active in the past year and would do whatever it could to move the industry forward, it would not do what can be done by the individual.

Turning to the convention theme of "Outlook for the Sixties," Mr. Merz noted that, while many nurserymen are enjoying volume prosperity, it is not profit prosperity. The nurseryman should not overlook what is right with himself, while concentrating on his competitors and what is wrong. Certainly, there is a challenge today, but without challenge there is no growth, he declared.

Nurseryman Benefits

The nurseryman has some benefits others do not enjoy. He does not face product obsolescence overnight, as many manufacturers do. The nurseryman is making just as vital a contribution now in the era of mass merchandising as before. Therefore, the advertising in Sunset magazine is built around the theme of experience and knowledge. Mr. Merz concluded by quoting from an editorial in the September 1 issue of the American Nurseryman, which pointed out that the strength of an industry lies in the vigor and co-operation of its

FOG HAS A PRACTICAL USE IN ALL TYPES OF NURSERY OPERATIONS



GROWERS: Harden off tender, fresh-dug stock the natural way. No shading necessary. See photo above.

PROPAGATORS: Outdoor fogging is still the most economical propagation method.

GREENHOUSE humidification, for cooling and positive moisture content.

See our advertisement in alternate issues for details of equipment and write for free layouts and information.

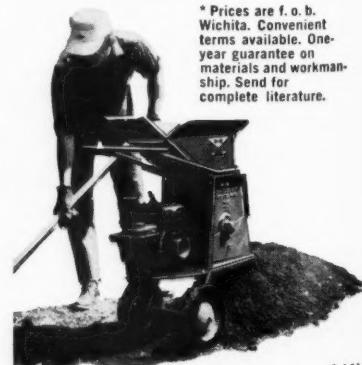
Mist-O-Gation, Inc.

Dept. A Middletown, Del.

see what this
W-W SHREDDER GRINDER
does for only **\$129.95***

Here's America's most famous Shredder-Grinder—only \$129.95* with choice of gas or electric power—or only \$96.00* less power. Has exclusive W-W interchangeable shredding bars and grinding screen for complete processing versatility. Handles trimmings, leaves, phosphate rocks, peat moss, osmunda, hard manure. Makes potting or bench soil. Quality built for years of service. Larger models available.

* Prices are f. o. b. Wichita. Convenient terms available. One-year guarantee on materials and workmanship. Send for complete literature.



W-W GRINDER CORP.
1910 2957-F N. Market, Wichita 19, Kansas

NOVEMBER 1, 1961

95

members. Mr. Merz stated the trade association offers the best opportunity.

A. A. N. Election

At the American Association of Nurserymen breakfast, the following officers of the California chapter were announced: Jack Schneider, president; Harold Prickett, vice-president, and John A. Armstrong, Jr., secretary-treasurer. Directors are James Perry; Jack Schneider; Harold Prickett; F. C. Tomlinson, Select Nurseries, Brea, and Herman Sandkuhle, Sunset Nursery, Oakland and Danville.

Alternates are Clyde Stocking, Stocking Rose Nursery; John A. Armstrong, Jr.; Robert Boddy, Descanso Nurseries, Chino; John Edwards, John E. Edwards Nursery, Palo Alto, and John Hahn, Ruehl-Wheeler Nursery, San Jose.

Willis Stribling, Stribling's Nurseries, Inc., Merced, reported on the A. A. N. convention at Washington, D. C., and Jack Schneider discussed the garden center committee. Ray Brush outlined the machinery of the A. A. N. office following the retirement of Dr. Richard White. L. H. McGuire's successor as director of region VI, Martin Usrey, Monrovia Nursery Co., Azusa, was introduced.

Tour Nursery

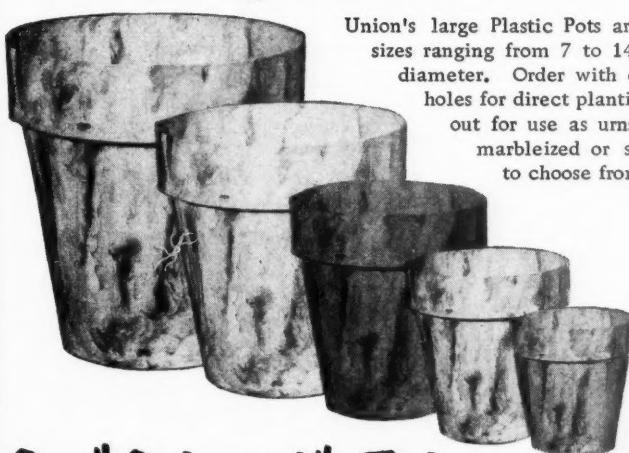
Among the many attractions offered by the convention and Santa Barbara, a highlight was a sightseeing tour to the Deigaard Nurseries and the Dos Pueblos Orchid Co. Wednesday concluded with a big steak barbecue at the Rancho Vistadores Adobe, with members decked out in Spanish and western attire. Awards to winners of the sporting events concluded the gay affair.

Fifty exhibitors were on hand for the trade fair, which offered prizes ranging to a trip for two to Hawaii.

CLOSE PINE PEST DOOR

Becoming effective October 15, 1961, were new regulations of the plant quarantine division of the United States Department of Agriculture shutting off importation of trees with or without roots, and tree twigs or branches of all pinus species heretofore allowed importation from Canada when destined for importation into the states of Idaho, Montana, Oregon, Utah and Washington. This action was taken to support previous regulations set up by the states named to suppress the European pine-shoot moth in their areas.

Union Large Plastic Pots...



Union's large Plastic Pots are made in sizes ranging from 7 to 14 inches in diameter. Order with drainage holes for direct planting or without for use as urns. Several marbleized or solid colors to choose from!

Or "Colonial" Tubs...



The "Colonial" Tubs have become so popular with plant enthusiasts that the line has been expanded from the original 12" Tub to include four other sizes down to 4 1/2". Made with or without holes.

For BIG Plants!

Write today for free Union catalog and price list.

UNION PRODUCTS INC., Leominster, Mass.

INCREASE SALES 100%

Don't Keep Your Customers Waiting for information about your stock. These self-selling plastic labels give all the information your customer wants — creating additional sales while you are busy.

We have the largest selection of horticultural subjects on plastic labels anywhere. Available in two types: (1) Over 800 varieties illustrated in full color; (2) over 600 fully descriptive labels with large, readable type.

SHOW IT AND SELL IT — HIDE IT AND KEEP IT

ASK FOR FREE SAMPLES AND CATALOG

GROWERS & MANUFACTURERS EXCHANGE

8434 S. Rosemead Blvd., Rivera, Calif.
Phone OXFORD 9-0711

No. 3 Container-Marker (picture and holder). Holder is 27 inches high. Prongs at bottom prevent turning in the wind. Use for salesyard display.



THRIFTEE PLASTIC PLANT MARKERS

(at low as \$1.80 per 1,000 in lots of 20,000)

NOW . . .
available
in
COLOR!

Pure White
Spring Green
Sky Blue
Gay Yellow
Brilliant Orange
Rich Red
Rose Pink
(Sizes 3", 4",
5", 6" only)



Better than old-fashioned wooden markers—and at competitive prices

- Permanent, attractive, lightweight, reusable, economical
- Easily marked with soft lead pencils, rubber stamps or printing
- Standard colors: Spring Green and White—available in 4 styles, 13 sizes . . . up to 15"
- Made by the makers of famous LIFETIME MARKERS—your guarantee of quality

THRIFTEE Markers are a real boon to florists, nurserymen and growers . . . wherever durable, attractive plant markers are required in quantity at a minimum price!

QUANTITY PRICES PER 1,000

Bulk Packed	3" x 7/16"	4" x 5/8"	5" x 5/8"	6" x 5/8"
1,000	\$2.50	\$3.90	\$4.80	\$5.40
5,000	2.20	3.60	4.50	5.10
10,000	2.00	3.30	4.15	4.80
20,000	1.80	3.00	3.80	4.25

All prices F.O.B., Milford, Michigan. Shipping charges prepaid if check accompanies order. Markers may be assorted to earn quantity prices.

Be sure to specify color desired—otherwise, all orders will be filled with Spring Green markers. Write for Thriftee prices on larger quantities.

SAMPLE ORDER (125 assorted markers) \$1.00 prepaid

There's a style and size to suit your needs! WRITE FOR FREE LITERATURE on our complete line of plastic plant markers and our unique, new JIFFY PRINTER for printing markers, quickly and economically.

LIFETIME MARKERS Dept. 7A

Box 216, Clyde, Michigan

For West: 1864 S. 120th St., Seattle 88, Wash.

Learn PROFESSIONAL LANDSCAPING
Easily & Quickly AT HOME

INCREASE YOUR EARNINGS by rounding out your operations! More and more nurserymen are discovering that a thorough knowledge of professional landscaping—now taught you at home by my new Simplified Methods—pays big dividends in increased sales. Complete training, in residential and commercial landscaping, in horticulture—in the growing, propagation, use and maintenance of ornamentals. Latest information on everything—new propagation methods, latest insecticides, gibberellic acid and modern landscape designing. Our training program used by hundreds of nurserymen coast to coast in training and upgrading employees. Plant lists and specialized information for all sections. Attractive certificates and lifetime consultation service for all graduates. Accredited by National Home Study Council. Send for FREE Booklet. Air Mail reaches us overnight.

NATIONAL LANDSCAPE INSTITUTE

Dept. N-111, 11826 San Vicente Blvd., Los Angeles 49, Calif.

MIST-A-MATIC®

PATENTED



AUTOMATIC MIST PROPAGATING SYSTEM
uses weight of water to control mist
SO SIMPLE • No Clocks to Set •
DEPENDABLE

Free Illustrated Folders Available

E. C. GEIGER

Box 270 North Wales, Pa.

WE SPECIALIZE IN NURSERY PRICE LISTS

Our plant is geared to fast, dependable service on quality nursery price lists. You are furnished paper samples and proofs. Send your price list today for quotation.

COURIER NURSERY PRINTERS

PHONE: 893-4401

Associate Member A. A. N.—We Specialize in Nursery Price Lists

PLANT PATENTS

The following plant patents were issued recently, according to Rummler & Snow, Chicago patent attorneys:

No. 2068. Azalea plant. To Anthony M. Shammarello, South Euclid, O. A new and distinct variety of azalea plant, characterized by its bushy habit of growth; the hardness of the plant and of its buds; its large, white, frilled bloom, and its retention of more foliage throughout the winter than *Azalea poukhanense*.

No. 2069. Ilex plant. To Anthony M. Shammarello, South Euclid, O. A new and distinct variety of ilex plant, characterized by its dwarf, compact, rounded and uniform habit of growth that results in a plant slightly taller than wide, with branches that are dense and elliptical.

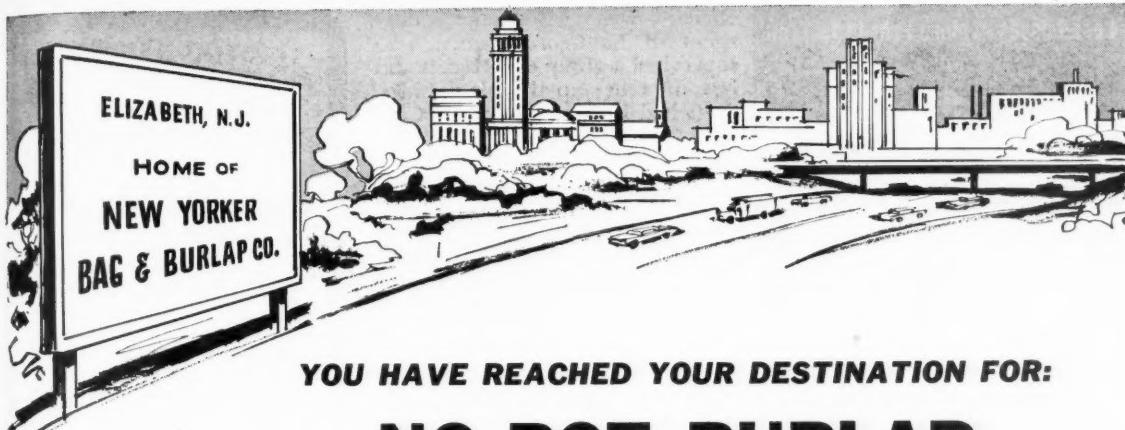
No. 2070. Chrysanthemum plant. To Orville O. Dunham, Niles, Mich. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the strong reddish-orange blooms of different hues; the very double arrangement of its petals; the large size of its blooms, and the early, continuous and long blooming period.

No. 2071. Peach. To Grant Merrill, Red Bluff, Calif. A new and distinct variety of peach tree which ripens approximately 20 to 25 days after Elberta (unpatented); which produces large, yellow-fleshed, freestone fruit of distinctive red color and round shape, particularly characterized by unusual firmness of flesh, and which resembles the Merrill Splendor (plant patent No. 1257), but is distinguished therefrom in blossoming somewhat earlier, being self-fertile and having fruit that is redder in color and ripens approximately five days later.

No. 2072. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the climber class, characterized particularly as to novelty by the unique combination of leathery foliage that stands up well under all weather conditions, large flower size and a distinctive and attractive general color tonality of the flowers corresponding to bittersweet orange, lightly overcast with capucine orange.

No. 2073. Columnea plant. To Magne Haualand, Hillevag, Stavanger, Norway, assignor to Robert Craig Co., Norwood, Pa. A new and distinct variety of columnea plant, characterized particularly as to novelty by its small, smooth leaves and its abundance of scarlet flowers, each having a small dot of yellow at its throat.

No. 2074. Rose plant. To Bernice Lafayette House, Tyler, Tex., assignor, by mesne assignments, to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the climber class, characterized particularly as to novelty by being substantially identical with its parent variety Circus (plant patent No. 1382), but being essentially distinguished therefrom by its vigorous and climbing habit of growth, as evidenced by its strong canes, which attain a mature height of eight to 10 feet, and the habit of producing no flowers on current season's canes, while producing profuse blooms in the spring on the



YOU HAVE REACHED YOUR DESTINATION FOR:

NO-ROT BURLAP

AN EXCLUSIVE PRODUCT OF NEW YORKER



For further information and immediate attention call COLLECT: Elizabeth 4-3115, or mail this coupon.



New Yorker Bag & Burlap Co.
651 Marshall St., Elizabeth, N. J.

Send sample and price list on No-Rot.

Mr.

Company

Address

City Zone State

NEW YORKER BAG & BURLAP CO.

651 MARSHALL STREET, ELIZABETH, N. J.
ELIZABETH 4-3115

growth of the preceding year and then intermittently flowering from the same wood during the remainder of the growing season.

All patents prior to plant patent No. 646, inclusive, have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

GIVE NEEDED HELP

Members of the Maryland Nurserymen's Association rendered generous assistance to the family survivors after the death October 5 of Sarah Elizabeth Scott, proprietor of Scott's Perennial Gardens, Randallstown, Md., as reported in the Obituary column of this issue of the magazine.

A large quantity of chrysanthemum plants that had been on order for delivery October 7 was dug on that date by the work party, which included Andrew Jones, Ellerslie Nursery, Glenwood; Carl Orndorff, Kalmia Farms, Inc., Derwood; Carroll Akehurst, Akehurst Nurseries, Fullerton; Thomas Adams and Melvin Hackett, Ten Oaks Nursery, Inc., Clarksville, and John Wolf, Pieke Landscaping Co., Baltimore.

Aiding the nurserymen were

PROFITS are HUGE in

FLOCKING with "SNOW-FLOCK"

IT'S QUICK . . . IT'S EASY TO OBTAIN UNIQUE, BEAUTIFUL EFFECTS AT LOW COST

Special complete Flocking Kit includes a compressor, flock gun with 3 jars, adhesive spray gun with cup and two 15-ft. air hoses.

Famous non-inflammable "FA-10" flocking adhesive dries rapidly, is colorless, has a pleasant odor and will not stain or discolor flock.

Finest-quality rayon flock available in 15 beautiful colors and cotton-white.

Non-inflammable "Sparkles" and "Giant Sparkles" pick up reflections that add brilliance and life to any flocked object.

Flocking "Order Tags" Available

Write for free illustrated catalog and color chart.

Complete flocking instructions and supplies are shown.

SCHUPP FLORIST SUPPLY CO. 1143 GREENLEAF WILMETTE, ILL.

Dutch and Domestic

BURLAP

PLAIN and TREATED

Established 1925

IMPORTERS—MANUFACTURERS

Distributors of Bird Pots,
Menne-Pots and Lorio Nursericars

J. SHORE & CO.
Chelsea, Mass.

USE THE BEST

STERLING PEAT

According to state tests, Sterling peat compares favorably with the best on the market. Available in 25-lb. bags, 60-lb. bags and 100-lb. bags. Also in bulk.

CHRISTIAN KRISTOFF
Sterling Junction, Mass. Phone: GARFIELD 2-6698

DIE-SLUG

Metaldehyde Emulsion
Fortified with Dieldrin

Kills slugs, snails and many other insects. One pint makes 16 gallons of spray, enough for 1500 sq. ft.

Price Postpaid—1 Pt. \$2.00
1 Qt. 3.00
1 Gal. 9.00

Distributorships Available
Manufactured in U.S.A.
by

TRIANGLE CHEMICAL COMPANY
P. O. Box 1501 Macon, Georgia

FLORISTS' TEXTILES PLASTICS

X. S. SMITH, INC.
Box 272 Red Bank, N. J.

Less Losses... More Profits for You
with



Stop-Wilt

MULTI-PURPOSE LIQUID PLASTIC



Stop-Wilt... the miracle vinyl compound which protects your plants... keeps moisture in, cold and drying winds out... lasts for months. Allows transplanting far beyond normal periods. By protecting all your growing stock all year round, you can realize sizable markups during the retail selling seasons!

■ WINTER PROTECTION—replaces wind-breaks and burlap coverings. Ideal for evergreens and shrubs.

■ SUMMER PROTECTION—protects against heat and drought.

■ TRANSPLANT PROTECTION—controls moisture loss... extends the transplanting season.

■ CUTS CHEMICAL COSTS—bonds insecticides and fungicides to plantings with a film that resists washing off. Cuts chemical requirements... gives you better protection.

■ MORE SALABLE STOCK—imparts glossy appearance which enhances beauty of all indoor and outdoor material... brings higher prices.

■ PRESERVES AND BEAUTIFIES Christmas trees, dry arrangements, cut greens.

WRITE TODAY—get all the facts on STOP-WILT... the economical plant protection that makes money for you.

FREE SAMPLE UPON REQUEST!



DOGGETT-PFEIL CO.

SPRINGFIELD, NEW JERSEY

Richard Delano, assistant county agent of Baltimore county, who supervised a group of 4-H girls and boys in tying up the plants. Mrs. Scott had been active in 4-H Club work.

OKLAHOMA CONVENTION

[Continued from page 9]

tember 28, which is a summary of the fair labor standards act, including 1961 amendments, as it pertains to the nursery industry. Mr. Lederer advised the nurseryman that if he has a wage-hour problem he should give the News Letter to his attorney; it can save him much work and save the nurseryman enough in attorney's fees to pay his dues for years to come.

"What Are Your Plans?"

Featured speaker at the noon luncheon was Bill Biggs, Bill Biggs Gardenland, Tulsa, who gave a talk entitled "What Are Your Plans?" He stated that, in this changing world, the retail nurseryman must adapt his thinking to the situations which arise, or he will be left behind by other merchandisers.

The nursery business, faced with a constantly expanding market and an uninformed public, does not place the value on nursery products which they deserve. The retail nurserymen of the past, he emphasized, are not getting their share of the market.

Adequate parking area, paved walkways, clearly displayed prices and neat-appearing personnel are required. Mr. Biggs emphasized that it is necessary to make it easy for the customer to buy. Related items should be displayed together, and nonsalable plants, he believes, should be destroyed.

One big problem found in garden centers is the lack of interest of salesmen. Enthusiasm is contagious, he said, and it is necessary that the owner be enthusiastic so that the sales help will be also.

The garden center of today has to employ a hard-hitting, consistent advertising campaign and should advertise benefits, not price. An adequate markup should be placed on the merchandise to allow sufficient money for advertising. The advertising copy should use illustrations liberally and have no fancy typography.

He cautioned that a better market cannot be made by lowering the price on items. The price should be sufficient to take care of expenses and yield some funds to put aside, as every year will not be a good one. The wholesaler, he added,

STOP RABBIT AND DEER DAMAGE TO TREES

NIBONE^X

Liquid Concentrate
Rabbit Repellent

NEW REPELLENT! WORKS! PAYS OFF!

Fully tested. Prevents damage to shrubs and trees. Soluble in water but will not wash off or freeze.

Apply with brush, sprayer, or sprinkler can. Only one application.

Harmless to trees, shrubs, rabbits, deer.

Size Makes Retail
2 oz. % Pt. \$.79
4 oz. 1/4 Pt. 1.29
1 pt. 2/2 Qts. 2.95

Dealers-Growers 33 1/3% OFF
Larger Sizes Available

READ WHAT USERS SAY!

(Names of Nurseries supplied on request)

Mentor, Ohio
"NIBONE^X is the most effective rabbit repellent we ever used. So superior to other so-called rabbit repellents there is no comparison."

Akron, Ohio
"No rabbit damage. No injury to trees or shrubs. Lasted all winter."

Painesville, Ohio
"Treated block of Flowering Crabs. No rabbit damage. Nearby untreated block seriously damaged. NIBONE^X is the answer to this problem of all nurseries."

ASK FOR NIBONE^X
If Jobber cannot supply, order direct.

HYDROPONIC CHEM. CO., Copley 21, Ohio

LARGE TREE MOVING COMMERCIAL LAWN BUILDING

12-in. cal. Trees Easily Handled In Quantity

We will furnish necessary supervision, operators and machines or labor as required to co-operate with the facilities available. We will move your trees or furnish them.

Any Project in U.S.A. Considered

References Furnished Upon Request

WILLIAM REINHOLD

Landscape Contractors-Engineers

23206 Telegraph Rd.
Flat Rock, Mich.

Phone: Trenton, ORleans 6-1351

BURLAST

POSITIVE PROTECTION

Burlap treated with BURLAST (dry powder mixed with water) resists rot and decay up to six months! Write for details.

HILL'S NURSERY
Box 1043, Victoria, Tex.

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merc

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should set his prices high enough so that he will have sufficient capital to help retail nurserymen with merchandising aids.

That afternoon a bus tour was made of Ozark Nursery and Greenleaf Nursery, after which a barbecue dinner was served at the Ozark Nursery. After this, the nurserymen returned to the Western Hills Lodge, where an informal dance was held.

Bermuda Lawn Disease

The first presentation on the program Friday morning, September 29, was a talk by Prof. Dallas Wadsworth, botany department, Oklahoma State University, Stillwater, on "Lawn Diseases." Concentrating on one disease, he stated that spring dead spot of Bermuda grass has been prevalent in Oklahoma since 1954 and is found in all states where Bermuda grass is grown. The disease is more serious in northern areas, as the damage occurs during the winter dormant period.

The spots are usually round and straw colored, and the grass does not grow back into these dead spots. For all practical purposes the area is sterile, he stated. The spot, he added, does not enlarge during the growing season. It has been found that the roots are rotted off. Where this disease exists, a certain fungus, *helinthosporium*, has been found, but, even after much research, it is not known precisely what causes spring dead spot.

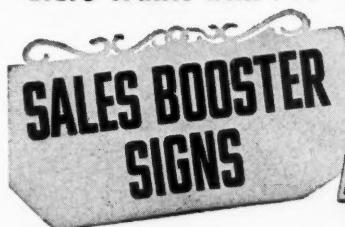
In treating the disease, one must remove the characteristic mat of dead grass so that the chemical may be watered into the root system. In the various tests that have been conducted, dieldrin showed best control. Liquid dieldrin at the rate of 22 ounces per thousand square feet has been applied in August, but Professor Wadsworth does not recommend using dieldrin as a drench, as it is highly toxic at high rates.

The subject of "Lawn Insects" was covered by Dr. Robert Walton, entomology department, Oklahoma State University, who noted that there are 50 or more insects that infest lawns.

Reviews Insecticides

Covering the various insecticides that can be used, he stated that dieldrin, aldrin and heptachlor control many insects, but the comparative hazard of using the materials is high. DDT and chlordane, which are also effective against many insects, entail a comparatively moderate hazard, as do lindane and Toxaphene. The latter two,

Garden Centers and Nurseries Increase Store Traffic with . . .



**the EASY-TO-CHANGE panel signs that
"Tell What You Sell,
When You Sell It"**

When you keep your roadside advertising up to date—offering current items and advertising specials—you are bound to increase store traffic and stimulate impulse sales. When you tell your sales story all year long with just one sign—a Sales Booster Sign—you'll be doing as hundreds of profit-wise operators do. They use Sales Booster Signs because they are more economical, more attractive and are easier to change.

- **Sales Booster Signs are now available in 3 distinctive styles—one is sure to fit your layout and reflect the good taste of its owner**

For Helpful Tips on
How These Proven
Sales Boosters Can
Enhance Your Lot,
Mail This Coupon
TODAY!

GROWERS SIGN SERVICE

Dept. AN-1, Tallmadge, Ohio
Gentlemen: Please send, without obligation, illustrated folder and price list for SALES BOOSTER SIGNS.

Name

Street

City..... Zone... State.....

NOW IS THE TIME FOR — ORGANIC MULCH

Featuring: Ground Corncobs
2-yr-old Horse Manure
Composted Horse Manure
Potting Soils

We mix to order.

Pickup or delivery

COMPOSTING MATERIALS, INC.
Rt. 1, Box 318
Lawrence 9-2627

Roselle, Ill.

Peters
SOLUBLE FERTILIZERS

To produce continued top-quality response on nursery stock use PETERS Soluble Fertilizers. All formulas have been developed by the Robert B. Peters Company, specialists in soil fertility control.

PETERS - the finest fertilizers at the best price.

- Ideal for container growing • Completely water soluble • Won't clog pipes or equipment

WRITE FOR YOUR FREE BROCHURE . . . "The Peters System of Soil Fertility Control" which also includes price list of various formulas.

ROBERT B. PETERS CO., INC. 2839 PENNSYLVANIA ST., ALLENTOWN, PA. 18103

NAMSCO PEATS = SALES REPORTS

FINELY GRANULATED
HIGHLY ABSORBENT
TOP-QUALITY
CANADIAN AND
EUROPEAN
PEAT MOSS

Prompt Shipments
'Hollandia' Burlap
SQUARES
REED MATS
for Coldframes

• Write for Prices
State Requirements

NEW AMSTERDAM IMPORT CO.
120 Grand St., White Plains, N. Y.

ALUMINUM TAGS (All-weather)



3½" x ¾"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
 - Heavy eyelet. Copper-wired.
 - Attractive silver Aluminum, backed with yellow cardboard.
 - Inexpensively priced:
- | | |
|----------------------|--------------------|
| 1000 for ... \$16.00 | 250 for ... \$6.00 |
| 500 for ... 10.00 | 100 for ... 3.00 |

Please Write for Free Samples

BERRYHILL NURSERY CO.
P. O. Box 696 Springfield, Ohio

Mention The American Nurseryman when you write.

USE
NURSERICANS
FOR ADDED PROFIT.

NOW AVAILABLE
IN 6 SIZES
1 GALLON* THROUGH
6 GALLONS*
*Trade Designations

THE *Lerio* CORP. Mobile, Ala.
Valdosta, Ga.
P. O. Box 567

NURSERY BURLAP
Dutch and Domestic
Squares and Rolls
Sizes 16 ins. to 60 ins.

FLEMINGTON BURLAP BAG CO.
Flemington, N. J. Phone: ST 2-6216

however, control fewer insects. Sevin, Dylox, dibrom, malathion and diazinon control fewer insects than the first group, but their comparative hazard is low. Malathion, he pointed out, is not effective against soil insects. Bakthane L69, a wettable powder that contains bacteria, controls worms and presents no hazard to the user.

There is no great choice as to how the chemicals are applied, and control can be obtained with any type. Dr. Walton cautioned that, when using the insecticides, one should cover his hands with rubber gloves. Since the residue is dangerous to children and pets, he advised sprinkling the lawn after application and isolating the area for a few days. Spring is the best time for treatment, and application is made when the damage is seen.

Rounding out the morning program was a talk on the care and potting of bare-root roses by Joe Abrahamson, Mount Arbor Nurseries, Shenandoah, Ia. Roses arriving from cold storage or truck freight are usually packed in sphagnum moss or in polyethylene-lined boxes. Well-packed rosebushes will keep from 10 days to two weeks and should be stored in a room at a temperature of 35 degrees Fahrenheit. If this cannot be done, they should be potted up immediately. Mr. Abrahamson said he would leave the rosebushes in a polyethylene-lined box for 10 days to two weeks only if sphagnum moss is packed around the plants.

The plants may be potted direct from the box and should be pruned at that time. He did not advise pruning the plants and putting them back into the box. He stated that if there is frost in the box—a rare occurrence today—it should be covered with straw or blankets and placed in a cool room for a few days to thaw out.

One should prune the roots back to four to six inches rather than try to wind all the roots into a pot. New roots come from the calluses at the end of the root where it was pruned. He recommended pruning the tops of the bushes to six inches; 10 inches on climbers.

Mr. Abrahamson suggested using potting soil of one-third peat, one-third sand and one-third soil and adding some phosphate to the mixture. The soil should be firmed and watered in so no air pockets are present. If the pot has a good bottom, it can be bounced to get rid of the air pockets.

After the plants are potted, they should be covered with burlap or polyethylene. He related that one

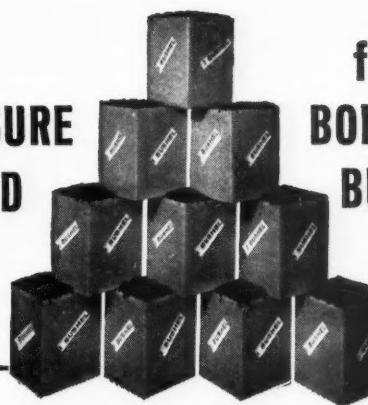
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of his customers found that plants covered with burlap alone suffered in heavy rains—the pots becoming soggy and the tops drying out. To prevent this, Mr. Abrahamson suggested using an outer covering of polyethylene over the burlap cover. Plants given this double covering should be placed in shade to avoid heat build-up under the polyethylene.

He advised waiting until breaks come out an inch before uncovering the plants and noted that one of his customers induces early breaks in his plants by putting them in a greenhouse under mist.

Good results can be obtained by using No. 3 rose pots, eight inches across and nine inches deep. Large exhibition roses can be grown on in 3-gallon egg cans. He emphasized that good drainage is necessary where the pots are placed. If the plants are put in a building, no drafts should be present as they will dry out the tops.

Mr. Abrahamson advised dipping the roots in a root stimulator before potting the bushes or planting them in beds. Potted roses should be fertilized every month thereafter.

After lunch the nurserymen were treated to a humorous talk deliv-

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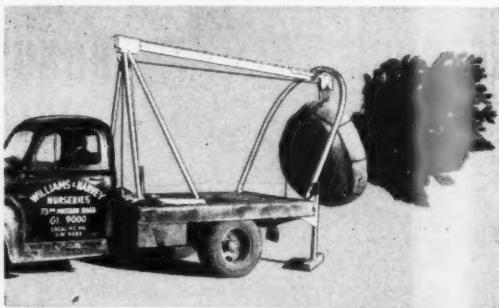
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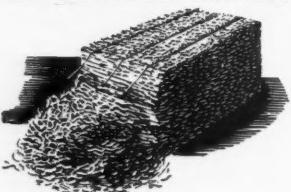


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ered by Dr. Leon Hill, Baptist minister from Amarillo, Tex. The topic of his speech was "Beaten Paths Are for Beaten Men."

Chapter 24 Elections

At the business meeting that afternoon, reports of the secretary and auditing committee were given, after which J. Frank Sneed, Sneed Nursery Co., Oklahoma City, presided at the meeting of chapter 24, region V, of the American Association of Nurserymen.

Harold Nickel was elected delegate to the A. A. N. convention at Denver, Colo., next July, and Bill Ansteth, Thomas Nursery, Tulsa, was elected alternate. Elected president of the chapter was Cy Higdon, Higdon's Flower Shop & Nursery, Oklahoma City, and Mr. Sneed was elected secretary.

The election of officers for the Oklahoma State Nurserymen's Association then took place, as previously reported. Highlight of the annual banquet that evening was the presentation of the Oklahoma outstanding nurseryman award and the presentation of the exhibitors' prize.

Clyde Bower, director of the division of entomology and plant industry, Oklahoma state department of agriculture, Oklahoma City, was presented with an honorary membership in the association. After the presentation of numerous additional prizes, the nurserymen enjoyed dancing for the rest of the evening.

OHIO LIQUIDATION SALE

Something new in "quitting business" sales occurred September 25 and 26, at Eaton, O., when all the nursery stock and equipment of Floral Garden Nurseries were sold at public auction at wholesale to members of the nursery trade.

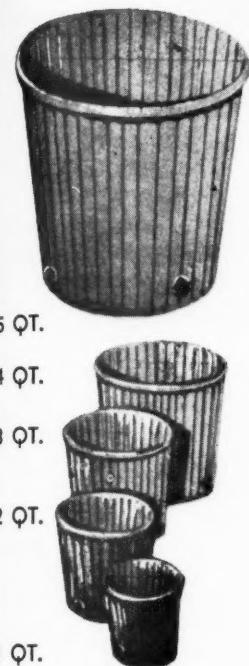
The untimely death of former owner, Stanley H. Swartzrauber, in February of this year brought about the decision of James W. Åker, son-in-law and partner, to withdraw from the nursery business and follow other work. A well-established retail and wholesale trade had been operated at Eaton for 31 years.

J. W. Dickerson & Associates, Troy, O., horticultural auctioneers and liquidators, had charge of the sale and provided the labor necessary to set up the entire operation, scheduling the division of stock into lots, some 1,200 in all, including 943 lots of plants growing on 12 acres. They also made digging labor available for any

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3 QT.	7 ins.	7 ins.	5 ins.
4 QT.	7 1/2 ins.	7 1/2 ins.	5 1/2 ins.
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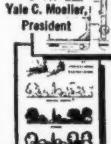
persons not wishing to dig their own purchases. Plants are to be removed within 90 days. In addition to an assortment of tools and equipment used in the nursery, the inventory of small tools and supplies from the garden store shelves was also sold. A 13x50-foot greenhouse and its heating system were included in the auction.

All lots were sold, ending with the garden store shelf inventory at 8 p. m. Prices received on most items were good, according to the opinion of many nurserymen present. The sale attracted customers bringing trucks from as far as 400 miles away.

LEO'S NURSERY, operated by Mr. and Mrs. Leo Fosburgh, has opened at the former location of Lilburn's Nursery, at the Victor Valley shopping center, Victorville, Calif. The new firm is offering a free counseling service.

LANDSCAPING entrance malls and a garden court area at the Rodger's Plaza shopping center, Grand Rapids, Mich., is Jones Nursery, Inc., Grand Rapids.

OPENED recently was Darst's Nursery, Williamsburg, Va., by H. Jackson Darst.

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HYBRIDIZER ADDRESSES LANDSCAPE GROUP

At the October 9 meeting of the Chicago Metropolitan Landscaper's Association, held on the city's far south side, a discussion of desired topics for a proposed 1-day short course program early next year formed the chief item of association business. William Reiser, Northbrook, told of preliminary work that had been done in contacting the University of Illinois and Morton Arboretum, Lisle, regarding program assistance. A date during the convention of the Illinois State Nurserymen's Association at Chicago was suggested for the event. President Walter Vogl asked for further information on members' needs in order to plan an effective educational feature.

The speaker of the evening was Orville W. Fay, Northbrook, Ill., an internationally known plant hybridist, who has carried on special work with irises and day lilies. The only American ever to win two William R. Dykes memorial medals for outstanding work in iris breeding, he indicated that his chief attention at this time is in the day lily field, where special colors are sought.

Day Lily Work

His work with the day lilies was begun about 10 years ago, these plants being considered to have excellent potential because of their persistence and free-blooming habit. They have a 5 million year history, but, as Mr. Fay put it, they were in a rut genetically. The recent breeding has given more substance to the petals, a greater variety of colors, continuous blooming habit and a still heavier blooming nature. Some of the breeders' techniques in developing plant changes were described, among them being the use of colchicine and X-ray.

In a brief discussion of the role of the geneticist, Mr. Fay described the action of genes and chromosomes in bearing plant characteristics and told how the genes can be manipulated to carry their characters into different combinations. In irises, for example, a chosen beard color can be given to any falls and the petal color can be determined, by the skilled geneticist.

Newcomer Slides

During a showing of slides of some of the newly developed irises, peonies and day lilies, Mr. Fay described the advances made with each and related experiences with

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their forms priced and h The one spray April borer the pment achiev shoul lands also b Re Fay r devel June soft y melo and creat bloo varie

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their development. The improved forms were described as high priced, but rewarding to the grower and having an excellent market.

The speaker declared that no one should grow irises who did not spray them twice a year—May 5 and April 25—with DDT, to prevent borer attacks. He pointed out in the pictures how good flower placement on S-curved stems had been achieved, noting that iris petals should have proper tilting for good landscape effect. Bloom life has also been extended.

Regarding the new day lilies, Mr. Fay related how varieties had been developed to give blooms from June to October, with peach tints, soft yellow, wine-red, true pink and melon colors in flowers. Evening and night bloomers have been created, and scapes having 50 to 60 blooms mark some of the new varieties.

THE "FLOATING" WALL

[Concluded from page 11]

curate excavation for sand footing, perfect sand fill and metal ties in all joints between stones throughout the entire wall. We experimented with old wire fence cut into pieces, bits of re-enforcing screen, barbed wire, but finally settled on corrugated wall ties as better, faster and needing less labor.

The real saving is the elimination of footing excavation of 42 to 48 inches in depth and the construction of six to eight cubic feet of underground wall for each lineal foot of finished wall.

All three walls are in East Lansing, Mich., and should anyone wish to take a look at one or all of them, we would be pleased to show them. Criticism would be most worthwhile.

A. A. N. WAGE-HOUR DATA

Members of the American Association of Nurserymen have received as News Letter No. 558, dated September 28, 1961, a complete summary of the fair labor standards act, including 1961 amendments, as it refers to the nursery industry. Effective September 3, 1961, the minimum wage rate was advanced and there were new provisions for blanket coverage as well as for blanket exemptions of firms. The current release brings up to date A. A. N. News Letter No. 456, dated February 10, 1956.

In addition to the references concerning exemptions, to which most space is given, the summary includes data regarding legal suits

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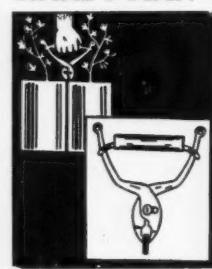


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Grips one can or two. Holds on like a bulldog, yet lets go at once when you set plants down. Picks any canned plant out of a jam-packed block of cans. Saves hours when loading trucks, yard dollies or just relocating display plants.

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and penalties, child labor and records.

Occupying 15 typewritten pages, the summary of regulations is designed to be understood by the layman, but care has been taken to see that the references in it are of as much value as possible to an attorney. All references are documented as to official and legal source and can be used by an attorney to facilitate his work for a nurseryman on any case in the wage-hour field. As a whole the summary provides important data for determining a firm's status under the complicated fair labor standards act and reaching a decision on questions of coverage or exemption of individual employees.

THE SPRUCES

[Continued from page 13]

as high; can be propagated by cuttings. A 32-year-old specimen in the Arnold Arboretum is only one foot tall and yet it is six feet in diameter.

P. a. Pygmaea—Very dense, small, conical form, about as high as it is wide.

P. a. Pyramidata—Narrow, slender pyramid.

P. a. Remonti—Ovoid to globe or conical form of slow growth, but not too small. A 59-year-old specimen in the Arnold Arboretum is 20 feet tall and 24 feet in diameter, and very compact and dense throughout.

P. a. Repens—Low, with procumbent or arching branches. A 23-year-old specimen in the Arnold Arboretum is two feet tall and five feet across.

P. asperata: 75, Z 5, China, dragon spruce—A dense spruce with the needles remaining on the tree as long as seven years (the reason it is so dense). Somewhat resembling the Norway spruce in shape, this tree has light green to light bluish needles and is excellent for seashore planting.

P. breweriana: 120, Z 5, Oregon and northern California, Brewer

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spruce — With long, whiplike branches, this tree is recommended only for the cool, high altitude areas of its native habitat. It does not perform well in the east and is rare in cultivation in America.

P. engelmanni: 150, Z 2, Canada to Oregon, Engelmann spruce—A much more desirable tree than the Norway spruce, with bluish-green foliage and dense branches. Although older trees may lose some of their lower branches like most other spruces, even 25-foot Engelmann spruces can be covered with branches all the way to the ground.

P. e. Argentea—Leaves silvery gray.

P. e. fendleri—Branches pendulous.

P. e. Glaucia—Leaves bluish to steel blue.

P. glauca: 90, Z 2, Canada and northern United States, white spruce—This native tree can endure heat and drought better than some others, but it is not so outstanding an ornamental as *P. engelmanni* and *P. omorika*. It is extremely hardy and hence must be left in this recommended list. However, especially in the eastern United States, many other spruces will make much better ornaments. In gardens in the eastern part of the country it is decidedly second rate.

P. g. coerulea—Of dense habit, with glaucous leaves.

P. g. conica—The popular dwarf white spruce, a compact pyramidal plant found in southwestern Canada in 1904 and widely distributed by the Arnold Arboretum. Forty-year-old specimens are not much more than 10 feet tall even when grown in good soil.

P. g. densata—This is the black hills spruce, which is a slow-growing, compact tree, with bright to bluish-green foliage, and is of value only as a smaller tree. A plant in the Arnold Arboretum that is 36 years old is 20 feet tall.

P. koyamai: 60, Z 4, Japan, Koyama spruce—A fine narrow tree with light green foliage, definitely ascending branches and a pyramidal outline. It lacks the "layered"-branching appearance of some of the other spruce species, and this makes it better as an ornamental.

P. mariana Doumeti: 30, Z 2, Doumet black spruce—Better than the species for ornamental work, because it is a denser, more rounded tree with bluish-green needles; can be propagated by cuttings. A 20-year-old tree is eight feet tall and nine feet in diameter and very dense and cylindrical.

P. omorika: 90, Z 4, S. E. Europe,

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Serbian spruce—This might be considered the best of the spruces for ornamental use in eastern United States gardens. It is of rather narrow habit, with glossy green leaves which are whitish on the undersurface and with pendulous branchlets as the tree grows older. In fact, some nurserymen propagate asexually from the more pendulous-branched trees. This is one of the few spruces with needles flat in cross section like those of a hemlock and not 4-sided as are those of most other spruces.

P. orientalis: 150, Z 4, Asia Minor, Oriental spruce—A graceful tree with dark green foliage and needles about the smallest of any of the species; hence it has fine texture. It must be admitted that in the Arnold Arboretum during severe winters the foliage may tend to burn; hence it does not have the rugged hardiness of *P. glauca* or *P. pungens*.

P. o. Aurea—Leaves bronzy yellow; a fine ornamental.

P. o. Gowdy—Listed as an extremely upright form of very narrow habit. The leaves are small and a rich green.

P. o. Nana—Low, broadly pyramidal form.

Picea pungens: 100, Z 2, Rocky mountains, Colorado spruce—A stiff-branched species with whorled branches all in definite planes or layers. The sharp needles produced at right angles to the twigs are green to bluish green. As small trees they are fine, but many older trees lose their lower branches, and when this happens they lose much effectiveness. If trees are replaced every 20 years, this condition need not exist. For rugged hardiness it is one of the best, but its stiff habit, its susceptibility to the spruce gall aphid and overplanting in many areas in the past may limit the usefulness of the species. The varieties with bluer foliage will probably always be popular.

P. p. Argentea—This variety, the silver Colorado spruce, is often

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sold as Koster's blue spruce, but the leaves are silvery white. The true Koster's blue spruce is the pendulous-branched form, *P. pungens Pendens*, not often found in nurseries.

P. p. Bakeri—Originated in a batch of seedling *P. pungens glauca* in Massachusetts. This variety, according to Roland E. Baker, Pomfret, Conn., is a deeper blue than *P. pungens Argentea* and possibly even a shade more colorful than the Moerheim spruce. For some reason or other, our specimen in the Arnold Arboretum has been slow in growth. A 32-year-old specimen of Baker's blue spruce is only 12 feet tall and six feet across, rather dense, while a Moerheim spruce of the same age is 50 feet tall.

P. p. Coerulea—Leaves bluish white, cerulean Colorado spruce.

P. p. Glauca—Foliage bluish green; often sold as Koster's blue spruce; the color is, of course, not so blue as that of the Moerheim or the Baker spruce.

P. p. Hunnewelliana—A slow-growing, densely pyramidal tree found in a Massachusetts nursery in a batch of *P. engelmanni* seedlings. It differs from *Compacta* in being a dense pyramid of light blue foliage. A 32-year-old tree in the Arnold Arboretum is 15 feet tall and eight feet in diameter.

P. p. Moerheimi—A compact form with deeper blue foliage than the other varieties except possibly the Baker spruce; named Moerheim spruce.

P. p. Pendens—Pendulous branched with the main branches almost horizontal and with bluish-white leaves stiffer than those of Moerheim spruce, it was originally propagated by the Koster Nurseries, Boskoop, Holland. It is not often found in the trade and is named Koster weeping blue spruce.

P. sitchensis: 140, Z 6, Alaska to California, Sitka spruce—Very ornamental, but can be grown only in a cool, humid climate. It does not do at all well in the eastern United States, but is a prominent timber tree in the moist climate of the Pacific northwest coastal area.

P. s. Speciosa—With a compact habit, slower growth and more ascending branches, but, like the species, of value only throughout the local area where it is native.

P. smithiana: 150, Z 6, Himalayas, Himalayan spruce—A good tree of broad, pyramidal habit, with pendulous branches. Since the young shoots start to grow early in the season, the tree should not be

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planted where there is a possibility of late spring frosts.

P. wilsoni: 75, Z 5, China, Wilson spruce—Good dense habit; light green foliage. A 50-year-old tree in the Arnold Arboretum is 20 feet tall and 20 feet in diameter.

Not Recommended

A—Differs little from species.
B—Other species or varieties just as good ornamentals.

C—Of little ornamental value.

Picea abies varieties—There are approximately 100 named varieties of this species, almost impossibly mixed up in gardens and nurseries about the world. Unquestionably, many of these are similar, most are slow growing and because of this only a few have interest to nurserymen. It is practically impossible for anyone to select accurately all the mediocre varieties without making a detailed, time-consuming study of the entire group in this country and abroad. The varieties in the following list are only a few of the many forms of *Picea abies* that need not be recommended:

Acrocona C—Stiff habit.
Argentea C—Leaves variegated with white.
Argenteo-spica C—Tips of branchlets white.
Aurea C.
Aurescens C—Young foliage yellowish, later yellowish green.

Chlorocarpa B.
Cincinnata C—A peculiar, pendulous-branched form.
Cupressina B—Densely rounded, cylindrical tree, but *P. abies Conica* is just as good.

Diffusa C—Foliage light yellowish green; wide-spreading habit.
Dumosa C—Short leaves far apart; tufted.
Echinactiformis B—Very dwarf and slow growing.
Ellwangeriana B—Loose habit, dwarf; not so hardy as some of the others.
Erythrocarpa B—Young cones violet purple.

Finedonensis B—Young leaves pale yellow to bronze, finally green.

Inversa C—Similar to *P. a. Pendula*.
Monstrosa C—Few branches, poor form.
Pendula B—Pendulous branches and branchlets, often irregular; little better than the species.

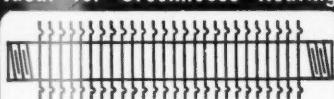
Pumila nigra—Same as *P. a. Pumila*.
Sherwoodii B—None too dense.
Viminalis B—Pyramidal form with few horizontal branches.
Virgata C—Few branches and branchlets.

asperata heterolepis A.
asperata notabilis A.

[Concluded on next page]

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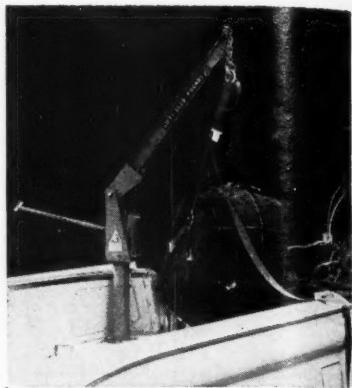
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asperata ponderosa A.
aurantiaca B—Often not well branched;
P. retroflexa has better color.
bicolor B—Little to recommend it.
bicolor acicularis A.
bicolor reflexa A.
brachytyla B.
brachytyla complanata A.
brachytyla rhombisquamea A.
brachytyla latisquamea A.
engelmanni microphylla B—Dwarf, globose, rare.
glauca albertiana B—Pacific northwest seacoast; taller than species and probably not so good an ornamental.
glauca Aurea C—Leaves yellow.
glauca Golden—Probably syn. for P. glauca Aurea.
glauca Nana B—Dwarf, dense, rounded shrub about six feet tall.
glauca Parva B—Low form.
glauca Porsildi A.
glauca tabuliformis—Syn. for P. glauca Parva.
glehni B—P. orientalis is better.
hursti B—Similar in general appearance to P. engelmanni.
jezoensis B—Not quite so stiff as P. pungens.
jezoensis hondoensis A.
likiangensis B.
likiangensis balfouriana A.
mariana C—Of little ornamental value; the Doumet black spruce is a better ornamental.
mariana Beissneri B—Broader at base than Doumeti and a lighter bluish green, also not so vigorous.
mariana Ericoides B—Conical, slow-growing form; not good foliage.
mariana Fastigiata B—A dwarf columnar form, rarely over four feet tall.
mariana Nana B—A globose dwarf.
maximowiczii B.
meyeri B—P. wilsonii is better.
montigena B—Too loose and open in its branching.
moseri (jezoensis x mariana) B.
notha (jezoensis hondoensis x glehni) B—P. glauca is better.
orientalis Aureo-spicata B—Leaves yellow when young; orientalis Aurea is a more colorful variety.
obovata C—Of little ornamental value.
obovata alpestris A.
obovata coerulea B.
obovata fennica A.
polita B—Needles so sharp they can be dangerous; many dead branches on older trees.
pungsensis B.
pungens Aurea—This form has been listed by some nurserymen as having leaves yellow on the sunny side of the plant and a normal green on the shaded side. I have never seen it.
pungens Compacta B—Individual branches are densely clothed with foliage, but there are open spaces between the branches.
pungens viridis B—Leaves simply green.
purpurea B.
retroflexa B—Somewhat similar to P. abies.
rubens C—Requires a moist atmosphere to do well. Many other spruces make better ornamentals in eastern gardens, because they can withstand summer droughts better.
rubens virgata C—Poor branching habit.
saighi (jezoensis x glauca) 1929 B.
schrenkiana B—P. glauca is almost as good, but slightly stiffer in habit.
spinulosa B—Zone 7; from the Himalayas; often considered handsome, but loose and broadly pyramidal in habit.
tonaensis B.

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BOOK REVIEWS

PALMS OF THE WORLD

The interest in palms fostered by and since the organization of the Palm Society, a half-dozen years ago, finds satisfaction as well as expression in the handsome illustrated volume, "Palms of the World," by James G. McCurrach, recently published by Harper & Bros., at \$17.50.

The author is an amateur collector of palms at his winter home at Palm Beach, Fla., since his retirement from business. His thorough observation and study of the genus is apparent. Not only has he gathered all of the available reference material, but he has traveled a good deal in the pursuit of his information.

The book is designed to be of value to amateur enthusiasts as well as more experienced and learned collectors. At the outset he explains the nomenclature followed and then in a unique illustrated glossary he defines in detail the terms used, with 48 illustrations for visible reinforcement.

The genera of palms are treated in alphabetical order, the principal species discussed and pictured, supplemented by a paragraph or two about other species not described or given other reference. The text is not at all botanical in character, but succinct in presentation in language understandable by amateurs. Interesting information about the principal or popular plants, species and varieties make the book interesting reading as well as valuable for reference.

The 400 illustrations are placed adjoining or near the pertinent text. Concluding the book is an official list of the world's valid palm genera and lists of palms to be found grown outdoors in famous botanical gardens of the world. His text indicates that he has been in consultation with

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GARDENING FOR HOMEOWNERS

Lest there be any misconception, it might be stated that the title of Edwin F. Steffek's latest book, "Gardening the Easy Way," is less descriptive than the subtitle, "The Homeowner's Complete Guide to Gardening." Into this volume of 198 pages he has packed concise information on all phases of gardening and all gardening problems in all parts of the country, to quote from the jacket, especially for new homeowners. No emphasis is laid on labor-saving devices or plants of easy growth to save toil, to make gardening easier. Out of his considerable experience as a garden editor, writer and practitioner, Mr. Steffek has produced a concise book of ready information on the various phases of home gardening, from trees and lawn to shrubs, flowers and vegetables. Just published by Holt, Rinehart & Winston and priced at \$3.95, the book is one which may well be recommended to the uninitiated homeowner who wishes to do his own gardening.

WEED CONTROL CLINIC

Evidence of the interest in chemical weed control in nurseries was illustrated when close to 200 persons attended the first pre-emergence weed control clinic staged by the Geigy Chemical Corp., at O'Hare Inn, Des Plaines, Ill., Tuesday evening, October 10. Representatives of the company pointed out the advantages of chemical weed control and how it works and then gave application rates. Questions from the audience were answered after the formal presentation.

Pre-emergence weed control prevents weeds in wet weather when hand operation is difficult and expensive; it prevents soil compaction and prevents damage to stock often inflicted by hoeing or cultivators. Labor is also released for other duties at a time when it is most needed.

The chemical does not harm the foliage of nursery stock, is safe to human beings and animals and is harmless to soil bacteria and earthworms, it was stated.

The chemical, Simazine, comes in a 4 per cent granular form or an 80 per cent wettable powder. One inch of water is needed in the 2-week period after application to wash the chemical to the desired soil depth of one to one and a half

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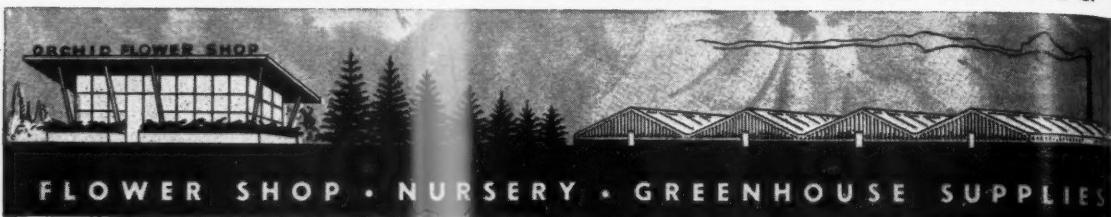
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inches. In this strata of the soil, 90 per cent of the weed seeds germinate, and when the weeds grow one inch tall so the root system is developed sufficiently, the herbicide will be taken up through the roots into the leaves, and the weeds will turn yellow and die.

The chemical is applied in fall for control of winter weeds; in late fall before freeze-up or very early spring for protection during the digging season. The nursery bed should be free of weeds before application, for the chemical will not kill established weeds with deep root systems. Soil should be tilled to no more than a 2-inch depth after application.

Stock should be lined out for one year before the chemical is used and it is not to be applied to seedbeds, it was pointed out. The various plants with which Simazine can be used appears on the label and correct rates should be applied, it was stressed.

There is little likelihood of buildup in the soil when the yearly applications are made, for the material disintegrates in the soil.

TRANSFERRING to the landscape horticulture department at the University of California, Davis, is Dr. Roy Sachs, plant physiologist and formerly a member of the university's department of floriculture, at Los Angeles.

ELECTED vice-president of the Chicago Metropolitan Landscaper's Association recently was Thomas R. King, Mount Greenwood Garden Center, Chicago, Ill., who will fill the vacancy left by the death of George N. May.



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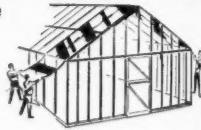
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18 to 24 ins., 24 to 30 ins., 30 to 36 ins.
GENERAL SHERIDAN , double, white, 18 to 24 ins.
24 to 30 ins., 30 to 36 ins., 36 to 42 ins.
LUDWIG SPAETH , single, deep red, 12 to 18 ins., 18 to 24 ins., 24 to 30 ins., 30 to 36 ins.
MME. FLORENT STEPMAN , single, white, 18 to 24 ins., 24 to 30 ins., 30 to 36 ins.
PRESIDENT GREVY , double, soft blue, 24 to 30 ins., 30 to 36 ins., 36 to 42 ins.
PRESIDENT LINCOLN , single, blue, 12 to 18 ins., 18 to 24 ins., 24 to 30 ins.
THUNBERG , double, mauve, late, 18 to 24 ins., 24 to 30 ins., 30 to 36 ins.

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THUNBERG , 2½ to 3 ft.	2.50

CRAB APPLE VARIETIES

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3 to 4 ft., field liners	1.00
ALMEY , bright red flowers, red fruit, 2 to 3 ft.	
DOLGO , white flowers, red fruit, 2 to 3 ft.	
DOROTHEA , dark pink, brilliant yellow fruit, 2 to 3 ft.	
HOPA , single, pink bud, white flowers, red fruit, 2 to 3 ft., 3 to 4 ft.	
KATHERINE , double, pink and white flowers, red fruit, 2 to 3 ft.	
PROFUSION , carmine-red flowers, bright red fruit, 2 to 3 ft., 3 to 4 ft.	
RED SILVER , single purplish-red flowers, purple fruit, 2 to 3 ft., 3 to 4 ft.	
ZUMI CALOCARPA , pink and white flowers, bright red fruit, 2 to 3 ft.	
SARGENTI , white flowers, dark red fruit	
12 to 18 ins. field liners	\$1.25 each
18 to 24 ins., field liners	1.40 each

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